August 7, 2015

Mr. David Brownlee
Georgia Environmental Protection Division
Land Protection Branch
Response & Remediation Program
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Via: Paper Copy and PDF copy on CD

Subject: **Voluntary Remediation Plan Status Report No. 7**
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. is hereby submitting the attached Status Report No.7 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 (VRP) 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 February to August 2015. 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 appreciate EPD's assistance with this 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 #7

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:	August 7, 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

August 6, 2015

Date

Signature and Stamp

2.0 INTRODUCTION AND BACKGROUND

This Voluntary Remediation Program Semi-Annual Status Report No. 7 (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 seventh Status Report covers the activities conducted from February 2015 until shortly before the submittal of this status report (August 7, 2015).

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 FEBRUARY TO AUGUST 2015

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 February through August 2015 have included semi-annual groundwater and surface water sampling and analysis, and a treatability study for the proposed remediation approach. 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 May 26 to June 8, 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 May-June 2015. The PVC casing for well MW-24 was broken off below the ground surface, was damaged, 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 is 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

Ten surface water samples were collected in May-June 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)
Inflow-1 (seep)	Inflow-2 (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). Three water samples (SW2014-20, SW2014-21, and Inflow-1) were collected in June 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. Sample Inflow-2 was collected from a seep along the stream’s main channel downstream of the railroad culvert. 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 first semi-annual groundwater and surface-water sampling event for 2015 was conducted from May 26 to June 8, 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 are discussed in the next section. The results of the groundwater and surface water analytical results are discussed afterwards.

3.3.1 Groundwater Flow Direction, Gradients and Velocity

The depth to water was measured in 39 monitoring wells on May 26, 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 897.32 feet in well MW-101 and the lowest elevation was 835.52 feet in well MW-107D. The May 2015 groundwater elevations are on average about two feet higher than the November 2014 elevations and are on average 1.8 feet

lower than the May 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 0.039 to 0.042 feet per foot based on the May 2015 potentiometric map. The groundwater seepage velocity was estimated using an average hydraulic conductivity of 0.84 ft/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 0.14 to 0.15 feet per day or 52 to 56 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 0.0028 feet/foot at the MW-104A/MW-104D nest. A downward gradient (0.23 and 0.14 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 (0.25 feet/foot) at well pair MW-106D/MW-121. The groundwater elevation in well MW-121 (863.07 feet), screening the uppermost fractured bedrock next to the un-named stream was slightly higher than the surface water elevation (862.75 feet) in the stream next to the well pair. The groundwater elevation in well MW-106D (853.33 feet), screening a deeper depth in the fractured bedrock was about 9 feet lower than the surface water elevation. The surface water elevation (839.77 feet) at Staff Gauge #3 was about 10 feet lower than the groundwater elevation in well MW-119 (849.85 feet) and was about 8 feet lower in elevation than the groundwater elevation (847.82 feet) in bedrock well MW-120. The groundwater elevation in well MW-107D (835.52) is about 0.7 feet lower than the stream elevation at Staff Gauge #4 (836.22 feet). The March 2014 groundwater elevation in M&J Solvent's site deeper bedrock monitoring well MW-CSX-03D, near wells MW-119/MW-120, was 832.40 feet which is below the elevation of the surface water (839.77 and 836.22 feet) at Staff Gauges #3 and #4. This data indicates 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 May-June 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. Wells TW-3 had the highest nitrate, and well MW-109 had the highest sulfate concentrations in the May-June 2015 event.

The groundwater analytical results are summarized on Table 3 and the laboratory reports are provided in Appendix A. Total copper and zinc concentrations ranged from 0.00288 to 286 mg/L while dissolved copper and zinc ranged from 0.00244 to 347 mg/L. Figure 3 presents the metals data for the new and existing monitoring wells from May-June 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 being 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 and lead concentrations ranged from 0.00115 to 1.02 mg/L, while the dissolved concentrations ranged from 0.00106 to 0.565mg/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 27 wells across the site. Alpha-BHC concentrations ranged from 0.000061 to 0.45 mg/L. Beta-BHC concentrations ranged from 0.000054 to 0.054 mg/L. Delta-BHC concentrations ranged from 0.000057 to 1.2 mg/L while gamma-BHC concentrations ranged from 0.000079 to 0.97 mg/L. The May-June 2015 BHC concentrations are higher than the November 2014 concentrations. BHC concentrations in well TW-8 increased from November 2014 to May-June 2015, but were less than the 2012 to January 2014 concentrations. There were two detections of dieldrin, four detects of DDD, one of DDE and three detects of DDT. Wells TW-1, TW-8, OW-2, and MW-108 had DDD, DDE, and DDT concentrations ranging from 0.0001 to 0.015 mg/L. Dieldrin was detected at 0.00013 to 0.0036 mg/L in wells TW-4 and TW-8 which have had past detections of dieldrin. The May-June 2015 DDD, DDE, and DDT concentrations were lower than the November 2014 concentrations while the dieldrin concentrations for May-June 2015 were higher. BFEL is looking into sampling a monitoring well located on the upgradient Whitaker property for pesticides which could accomplish the objective of delineating pesticides.

The May-June 2015 pesticide concentrations showed an increase from the November 2014 concentrations in wells TW-4, TW-6, TW-8, MW-106D, MW-110, MW-112, and MW-115. The total metals concentrations in the May-June 2015 groundwater samples were slightly higher than the November 2014 concentrations in wells TW-3, TW-5, TW-6, TW-7, TW-9, MW-1B, MW-101, MW-102, MW-104D, MW-105, MW-106D, MW-111 MW-112, and MW-114. Rainfall in April 2015 for Atlanta was 7.8 inches total for the month preceding the May-June 2015 sampling event whereas there was 3.5 inches of rainfall in October 2014 preceding the November 2014 event. The higher rainfall preceding the May-June 2015 event may have contributed to the slight rise in constituent 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 May-June 2015 ranged from 0.34 to 38 mg/L and were slightly less than the November 2014 results. Sulfate concentrations in

May-June 2015 ranged from 12 to 1400 mg/L and were less than the November 2014 results with wells TW-3 and MW-109 having the highest concentrations, respectively.

3.3.3 Groundwater Analytical Results for Volatile Organic Compounds

In May-June 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. The purpose of this sampling was to further evaluate the extent of VOCs, previously detected in November 2014 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 2014 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 toward the un-named stream while the Estech property groundwater flow is from the west to the east. 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. More Estech wells were sampled for VOCs in May 2015. Twenty-four VOCs were detected and included benzene, toluene, ethylbenzene, xylenes (BTEX), to chlorinated VOCs (trichloroethene and 1,4-dioxane) to ketones (acetone and methyl ethyl ketone) (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, MW-119, 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-6 located about the center of the Estech property had a low detection of naphthalene. Well TW-8 located in the former pond area of Estech had detections of benzene, 1,2,4-trichlorobenzene, and chlorobenzene. Well MW-111 also in the pond area had a detection of chlorobenzene. There are no wells upgradient between wells TW-6 and TW-8 and the railroad. However, there are several wells surrounding TW-6 and TW-8 that are non-detect for VOCs (Figure 6). Bedrock well MW-110 was also non-detect for VOCs. Wells TW-1 to TW-3, and MW-22 are sidegradient to TW-6 and TW-8, and there are several wells that are non-detect for VOCs between the two areas. It is inconclusive, based on one sampling event, where the VOCs in TW-8 migrated from. Further sampling and analysis of VOCs will be conducted during the next semi-annual event. At this time, it cannot be estimated how groundwater pumping will affect the extent of the VOC plume.

3.3.4 Surface Water Analytical Results

Ten surface water samples were collected from the un-named stream in May-June 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 0.038J to 0.33 µg/L, beta-BHC 0.073 to 2.2 µg/L, delta-BHC 0.061 to 0.3 µg/L, and gamma-BHC 0.013J to 0.16 µg/L based on a laboratory reporting limit of 0.05 µg/L. Dieldrin was reported at concentrations of 0.012J to 0.046J µg/L which are less the laboratory reporting limit of 0.1 µg/L. The May-June 2015 BHC concentrations were similar to the November 2014 concentrations. Dissolved arsenic ranged from 0.000269J to 0.00236J mg/L which are below the laboratory reporting limit of 0.005 mg/L. Dissolved copper was detected at concentrations ranging from 0.000426J to 0.348 mg/L, and dissolved zinc was detected at concentrations ranging from 0.406 to 7.05 mg/L and based on laboratory reporting limits of 0.002 mg/L and 0.01 mg/L, respectively. Lead was not detected. The May-June 2015 dissolved metals concentrations were slightly higher than the November 2014 concentrations. Nitrate was detected at 1.2 to 8.4 mg/L, sulfate was detected at 49 to 310 mg/L, and both were similar to the November 2014 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.

The concentrations were compared to the National Water Quality Criteria for Human Health (AWQC) (as requested by EPD in February 2012 comments) and the Georgia In-stream Water Quality Criteria (ISWQC) for aquatic life receptors. When compared to the lowest values of the AWQC for human health (Table 4), the concentrations of alpha and beta-BHC and arsenic are greater than the criteria for human consumption of water and organisms. There are no criteria for these BHCs under the Georgia ISWQC.

Dissolved copper and zinc concentrations are greater than the ISWQC for aquatic life receptors (Table 4) and are less than the human health criteria. The nitrate concentrations were less than the AWQC (Table 4). 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 concentrations in seep sample Inflow-2 were the lowest of the ten surface water samples. The highest concentrations were detected at seep sample locations (Inflow-1, SW2014-20, 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.

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 re-inject the treated water back into the upgradient soil 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 2015 and confirmed VOC impacts on the western and northern portion and near the former pond area 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 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 did raise 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. Appendix B provides a description of how the treatment study was conducted and the results.

The results of the bench-scale treatability study appear favorable for raising the pH of the water and may be effective in the treatment of 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.

A pilot scale field test of the groundwater recirculation concept in the eastern portion of the site is being evaluated for interference from the M&J Solvent site VOC plume However, 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 November 2015 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

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	Inflow-1	Inflow-2		

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. At this time BFEL is evaluating proceeding with installation of the surficial limestone PRB, which will 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.

4.3 Surficial Permeable Reactive Barrier

With EPD's approval of the proposed limestone Permeable Reactive Barrier (PRB) for the seep area in the drainage feature on the west side of the un-named stream, BFEL proposes to contact CSX and begin negotiations to obtain access to their property to construct the PRB.

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 560.8 professional service hours have been provided by Amec Foster Wheeler Environment & Infrastructure, Inc. from January 24 through July 24, 2015. 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 32.5 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 DEPTH (FT, BGS)	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-2	Well TW-2	27.2	895.5/897.90*	17-27	TW-2-053012	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-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-3	Well TW-3	36.6	893.9/897.44*	26.4-36.4	TW-3-053112	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-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		
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	5/15/2014	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 Sampled for treatability study of VOCs
		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	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-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		Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
		33.5 btoc					Pesticides		
							Nitrate and Sulfate		

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AREA SAMPLED	BORINGS	TOTAL BORING DEPTH (FT, BGS)	GROUND SURFACE ELEVATION (FT, NGVD)	SAMPLE DEPTHS PER BORING (FT, BGS)	SAMPLE IDENTIFICATION	MEDIA	ANALYSES PER SAMPLE	SAMPLE DATE	RATIONALE
							Total and Dissolved As, Cu, Pb, and Zn	5/29/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
							Pesticides		
TW-4	Well TW-4	32.3	897.2/899.36*	21.8-31.8	TW-4		Nitrate and Sulfate		
		33.5 btoc					Site-Specific VOCs		
TW-5	Well TW-5	30.0	888.8/891.89*	19.8-29.8	TW-5-053012	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-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		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-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-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-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		

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
TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-04-15-2013	Groundwater	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	4/15/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 1st quarter sampling after EHC injection
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 Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	7/16/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
TW-8	Well TW-8	29.5	899.2/900.36*	19-29	TW-8-10-9-2013		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	site-wide groundwater monitoring and parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
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 Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	1/8/2014	site-wide groundwater monitoring and parameters for EHC injection pilot study 4th quarter sampling after EHC injection
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/19/2014	site-wide groundwater monitoring
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/14/2014	site-wide groundwater monitoring
TW-8	Well TW-8	29.9	899.2/900.36*	19-29	TW-8		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Pesticides
TW-9	Well TW-9	33.2	899.2/901.56*	23-33	TW-9-053112		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/31/2012	New well to investigate Copper and Zinc in groundwater
TW-9	Well TW-9	33.2 35.0 btoc	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/28/2013	site-wide groundwater monitoring
TW-9	Well TW-9	33.2 34.9 btoc	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2013	site-wide groundwater monitoring
TW-9	Well TW-9	33.2 34.5 btoc	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/22/2014	site-wide groundwater monitoring
TW-9	Well TW-9	33.2 34.9 btoc	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/17/2014	site-wide groundwater monitoring
TW-9	Well TW-9	33.2 34.9 btoc	899.2/901.56*	23-33	TW-9		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/8/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
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 Pesticides Nitrate and Sulfate	5/31/2012	New well to investigate Copper and Zinc in groundwater
TW-10	Well TW-10	29.4 30.0 btoc	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/24/2013	site-wide groundwater monitoring
TW-10	Well TW-10	29.4 29.9 btoc	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/18/2013	site-wide groundwater monitoring
TW-10	Well TW-10	29.4 29.4 btoc	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/22/2014	site-wide groundwater monitoring
TW-10	Well TW-10	29.4 29.4 btoc	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/17/2014	site-wide groundwater monitoring
TW-10	Well TW-10	29.4 29.4 btoc	895.6/896.56*	19.2-29.2	TW-10		Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/31/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

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
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-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		
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		
MW-1B	MW-1B	30.0	913.5/915.95*	20-29	MW-1B		Total and Dissolved As, Cu, Pb, and Zn	5/27/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		32.46 btoc					Pesticides		
							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		

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-22	MW-22	27.0	894.23*	17-27	MW-22	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
		28.9 btoc					Pesticides		
							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 and M&J Solvents site plume impact on BFEL
		28.9 btoc					Pesticides		
							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 and M&J Solvents site plume impact on BFEL
		29.8 btoc					Pesticides		
							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		
MW-26	MW-26	19.0	905.11*	9-19	MW-26		Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		20.9 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-101	MW-101	25.0	912.55*	14.4-24.4	MW-101-1112	Groundwater	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		Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		27.20 btoc					Pesticides		
							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 and M&J Solvents site plume impact on BFEL
		27.20 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-102	MW-102	31.2	915.19*	21.1-30.1	MW-102-1112	Groundwater	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		

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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-102	MW-102	31.2	915.19*	21.1-30.1	MW-102	Groundwater	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 and M&J Solvents site plume impact on BFEL
		32.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A-1112	Groundwater	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		
MW-104A	MW-104A	40.0	898.00*	30.0-39.5	MW-104A		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-104D	MW-104D	80.0	901.59*	69.5-79.5	MW-104B-1112	Groundwater	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		

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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-105	MW-105	25.0	904.55*	14.8-23.8	MW-105-1112	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
							Pesticides		
							Nitrate and Sulfate		
					MW-105-1212		Pesticides	12/5/2012	confirmation sampling of pesticides
MW-105	MW-105	25.0	904.55*	14.8-23.8	MW-105		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-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		
MW-106D	MW-106D	70.0	878.6*	60-69	MW-106D		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-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-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		

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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-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		
MW-110	MW-110	76.6	900.52*	66.5-75.5	MW-110		Total Alkalinity	5/15/2014	site-wide groundwater monitoring
		78.9 btoc					Total and Dissolved As, Cu, Pb, and Zn		
							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		

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-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-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

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-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-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-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		
MW-115	MW-115	20.5	893.40*	10.5-19.5	MW-115		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-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	
						Groundwater			
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		

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-117	MW-117	22.0	892.42*	12-22	MW-117-1112	Groundwater	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		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-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119-1212	Groundwater	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		
MW-119	MW-119	52.0	889.8/892.16*	36.5-51.5	MW-119		Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
		54.6 btoc					Pesticides		
							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 and M&J Solvents site plume impact on BFEL
		54.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-120	MW-120	64.5	890.1/892.44*	54-64	MW-120-1212 MW-120-1212	Groundwater	Total and Dissolved As, Cu, Pb, and Zn	12/7/2012	site-wide groundwater monitoring
							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 and M&J Solvents site plume impact on BFEL
		65.6 btoc					Pesticides		
							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 and M&J Solvents site plume impact on BFEL Sampled for treatability study of VOCs in GW
		65.6 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		
MW-121	MW-121	35.0	876.9/879.45*	22-32	MW-121-1212	Groundwater	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 and M&J Solvents site plume impact on BFEL
		35.4 btoc					Pesticides		
							Nitrate and Sulfate		
							Site-Specific VOCs		

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-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 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-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1-04-15-2013		Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Cabon Total Alkalinity	4/15/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
OW-1	OW-1	40.5 42.2 btoc	898.7/901.13*	20-40	OW-1-07-16-2013		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	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		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		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-2	OW-2	40.5	898.5/901.14*	20-40	OW-2-12013	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-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 btoc	898.5/901.14*	20-40	OW-2-07-16-2013		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	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 2nd quarter sampling after EHC injection

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-2	OW-2	40.5 42.9 btoc	898.5/901.14*	20-40	OW-2-10-9-2013	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-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-3	OW-3	41.0 42.9 btoc	899.1/901.47*	20.5-40.5	OW-3-12013		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-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 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-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

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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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-2010-10-1112	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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-2010-11-1112	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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-2010-14-1112	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	6/4/2015	Surface water quality 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-2010-15	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	Surface Water	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	Surface Water	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	Surface Water	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	Surface Water	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	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-2010-17-1112	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	Surface Water	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	Surface Water	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
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	Surface Water	Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
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
SW2014-21	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	Surface Water	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	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-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 1/7/98 (ft.)	Ground-Water Elevation on 1/7/98 (ft., NGVD)	Depth to Ground Water on 5/29/1998 (ft.)	Ground-Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Ground Water (ft.) 1/21/00	Ground-Water Elevation (ft., NGVD) 1/21/00	Depth to Ground Water (ft.) 11/26/02	Ground-Water Elevation (ft., NGVD) 11/26/02
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								
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
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) 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			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) 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
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
MW-21	885.9	-	875.9	clayey silt to silty clay	905.70	dry		23.78	881.92	dry		26.01	879.69
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
MW-24	874.8	-	864.8	silty clay to clayey silt	897.31	damaged		damaged		damaged		damaged	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 1/7/98 (ft.)	Ground-Water Elevation on 1/7/98 (ft., NGVD)	Depth to Ground Water on 5/29/1998 (ft.)	Ground-Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Ground Water (ft.) 1/21/00	Ground-Water Elevation (ft., NGVD) 1/21/00	Depth to Ground Water (ft.) 11/26/02	Ground-Water Elevation (ft., NGVD) 11/26/02
OW-1	878.7	-	858.7	silt to partially weathered rock	901.13								
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 Ground Water on 1/7/98 (ft.)	Ground-Water Elevation on 1/7/98 (ft., NGVD)	Depth to Ground Water on 5/29/1998 (ft.)	Ground-Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Ground Water (ft.) 1/21/00	Ground-Water Elevation (ft., NGVD) 1/21/00	Depth to Ground Water (ft.) 11/26/02	Ground-Water Elevation (ft., NGVD) 11/26/02
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								
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
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 (ft., btoc) 8/20/2007	Surface Water Elevation (ft., NGVD) 8/20/2007	Depth to SurfaceWater (ft., btoc) 9/20/2007	SurfaceWater 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	not installed							

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
OW-2	878.5	-	858.5	silt with quartz veins to partially 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	not installed				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
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
OW-2	878.5	-	858.5	silt with quartz veins to partially weathered rock	901.14	20.37	880.77	17.52	883.62	21.70	879.44	19.10	882.04
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
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**
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
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
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
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

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 7/16/2015
Checked by: RNQ 7/20/2015

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-2	TW-2	TW-2	TW-2
Sample Date	*Concentrations*	**5/28/2015**	**11/12/2014**	**5/14/2014**	**11/13/2013**	**05/29/2013**	**05/30/2012**	**5/28/2015**	**11/12/2014**	**5/14/2014**	**11/14/2013**
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	<0.005
Total Copper	1.3	**0.00288**	**0.00495**	**0.00312**	**0.00247**	**0.0132**	<0.002	<0.002	<0.002	<0.002	<0.002
Total Lead	0.015	**0.00193**	**0.00102**	**0.00119**	<0.001	**0.0118**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**0.224**	**0.319**	**0.300**	**0.361**	**0.373**	**0.178**	<0.01	<0.010	<0.010	**0.0102**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.0027**	<0.002	<0.002	<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	<0.001
Dissolved Zinc	2	**0.202**	**0.283**	**0.270**	**0.318**	**0.333**	**0.180**	<0.01	<0.010	<0.01	<0.01
Total of Total Metals Concentrations		0.22881	0.32497	0.30431	0.36347	0.398	0.1781	BDL	BDL	BDL	0.0102
Total of Dissolved Metals Concentrations		0.202	0.2857	0.27	0.318	0.333	0.1802	BDL	BDL	BDL	BDL
Inorganics mg/L											
Nitrate	10 (NR)	<0.25	<0.25	<0.25	<0.25	**0.29**	<0.25	**4.3**	**3.5**	**4.1**	**5.6**
Sulfate	250 (NR)	**60**	**46**	**63**	**54**	**61**	**60**	**84**	**66**	**81**	**93**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	**0.002**	**0.00087**	**0.00054**	**0.00040**	**0.00059**	**0.00042**	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	**0.0019**	**0.0031**	**0.0019**	**0.0013**	**0.0047**	**0.00050**	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	**0.0017**	**0.0052**	**0.0043**	**0.0025**	**0.0037**	**0.00049**	<0.0001	<0.0001	<0.0001	**0.0001**
alpha-BHC	0.00005(DL)	**0.00053**	**0.0002**	**0.0015**	**0.00041**	**0.00043**	**0.0037**	<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	<0.00005
beta-BHC	0.00005(DL)	**0.0061**	**0.0041**	**0.018**	**0.0081**	**0.0200**	**0.0087**	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	**0.00056**	**0.00023**	**0.0016**	**0.00056**	**0.0013**	**0.00047**	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	**0.0017**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.00044**
gamma-BHC	0.0002	**0.00033**	**0.00016**	**0.00076**	**0.00025**	**0.00026**	**0.00030**	<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	<0.00005
Heptachlor	0.0004	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	**0.0056**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.01312	0.01386	0.03420	0.01522	0.03098	0.01452	BDL	BDL	BDL	0.00054
pH (std units)		6.01	5.81	5.73	5.92	5.6	6.19	5.08	5.51	5.71	5.56
Specific Conductance (mS/cm)		0.283	0.449	0.416	0.445	0.383	0.36	0.27	0.412	0.356	0.405
Turbidity (NTUs)		9.79	10.7	2	9.81	48.1	0.75	0	1.5	8.5	9.89
DO (mg/L)		0.3	0.95	1.84	1.09	10.15		0.18	0.93	1.43	1.89
ORP (mV)		59	-33	114	77	170		193	-40	135	139

TABLE 3 SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-2	TW-2	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-4	TW-4
Sample Date	*Concentrations*	**05/29/2013**	**05/30/2012**	**6/5/2015**	**11/13/2014**	**5/15/2014**	**11/14/2013**	**05/30/2013**	**05/31/2012**	**5/29/2015**	**11/13/2014**
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	<0.005
Total Copper	1.3	**0.0137**	<0.002	**0.884**	**0.820**	**0.695**	**0.933**	**1.12**	**1.09**	**0.149**	**0.166**
Total Lead	0.015	**0.00445**	<0.001	**0.00544**	**0.00301**	**0.00407**	**0.00499**	**0.00466**	**0.00266**	**0.00349**	<0.001
Total Zinc	2	**0.0273**	**0.0109**	**2.16**	**2.120**	**1.95**	**2.55**	**2.92**	**2.14**	**0.793**	**0.884**
Dissolved Arsenic	0.01	<0.005	<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	**0.724**	**0.842**	**0.672**	**0.845**	**1.05**	**1.01**	**0.145**	**0.151**
Dissolved Lead	0.015	<0.001	<0.001	**0.00309**	**0.00308**	**0.00336**	**0.00334**	**0.00346**	**0.00175**	<0.001	<0.001
Dissolved Zinc	2	<0.01	<0.01	**2.08**	**2.19**	**1.9**	**2.04**	**2.74**	**2.00**	**0.752**	**0.836**
Total of Total Metals Concentrations		0.04545	0.01091	3.04944	2.94301	2.64907	3.48799	4.04466	3.231657	0.94549	1.05
Total of Dissolved Metals Concentrations		BDL	BDL	2.80709	3.03508	2.57536	2.88834	3.79346	3.005752	0.897	0.987
Inorganics mg/L											
Nitrate	10 (NR)	**4.6**	**4.3**	**38**	**6.2**	**7.4**	**11**	**12**	**9.5**	**0.82**	**1.8**
Sulfate	250 (NR)	**88**	**68**	**530**	**600**	**600**	**640**	**600**	**550**	**140**	**160**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	**0.000070**	**0.001200**	**0.000870**	**0.00095**	**0.00055**	**0.00049**	**0.00063**	<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	<0.00005
beta-BHC	0.00005(DL)	<0.00005	**0.00014**	**0.00110**	**0.0011**	**0.0012**	**0.00072**	**0.00077**	**0.0010**	**0.0094**	**0.00062**
delta-BHC	0.00005(DL)	<0.00005	**0.000057**	**0.000410**	**0.000360**	**0.00040**	**0.00019**	**0.00017**	**0.00027**	**0.00021**	**0.000083**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.00013**	**0.00011**
gamma-BHC	0.0002	<0.00005	<0.00005	**0.00051**	0.00035	**0.00042**	**0.00022**	**0.00021**	**0.00026**	<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	<0.00005
Heptachlor	0.0004	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	0.00026	0.00322	0.00268	0.00297	0.00168	0.00164	0.00219	0.00974	0.00081
pH (std units)		5.43	6.03	2.49	3.69	4.03	3.75	3.9	4.33	4	4.07
Specific Conductance (mS/cm)		0.386	0.38	0.958	1.44	1.27	1.49	1.51	1.43	0.268	0.45
Turbidity (NTUs)		9.8	2.27	4.2	7.7	1.8	9.56	35.5	8.82	0	0.0
DO (mg/L)		5.86		0.54	1.88	2.17	0.63	1.38		1.17	2.79
ORP (mV)		246		383	428	227	441	486		365	300

TABLE 3 SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-4	TW-4	TW-4	TW-4	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5
Sample Date	*Concentrations*	**5/15/2014**	**11/15/2013**	**05/30/2013**	**05/31/2012**	**6/1/2015**	**11/13/2014**	**05/21/2014**	**11/15/2013**	**05/29/2013**	**05/30/2012**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0125**	**0.0087**	<0.005
Total Copper	1.3	**0.166**	**0.234**	**0.127**	**0.139**	**1.5**	**1.400**	**1.48**	**1.71**	**1.58**	**0.865**
Total Lead	0.015	<0.001	<0.001	**0.0116**	<0.001	**0.00149**	0.0025	**0.00198**	**0.0716**	**0.0257**	**0.0029**
Total Zinc	2	**0.968**	**1.27**	**0.847**	**0.902**	**33.6**	**17.4**	**14.5**	**18.9**	**11.6**	**13.7**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.161**	**0.216**	**0.113**	**0.128**	**1.32**	**1.29**	**1.66**	**1.080**	**1.57**	**0.751**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	**0.00106**	0.00169	**0.00228**	**0.00687**	**0.00276**	<0.001
Dissolved Zinc	2	**0.944**	**1.14**	**0.879**	**0.847**	**12.8**	**19.6**	**15.8**	**15.1**	**11.0**	**8.6**
Total of Total Metals Concentrations		1.134	1.504	0.9856	1.0416	35.10149	18.8025	15.98198	20.6941	13.2144	14.5678
Total of Dissolved Metals Concentrations		1.105	1.356	0.992	0.9745	14.1211	20.8917	17.46228	16.18687	12.57276	9.351
Inorganics mg/L											
Nitrate	10 (NR)	**3.0**	**2.8**	**1.4**	<1.2	**28**	**29**	**37**	**26**	**31**	**30**
Sulfate	250 (NR)	**190**	**220**	**190**	**160**	**620**	**810**	**480**	**600**	**500**	**430**
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	<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	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	**0.00021**	<0.0001	**0.00026**	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	**0.000093**	**0.00012**	**0.00020**	**0.00012**	**0.00011**	**0.000053**	**0.00011**	**0.00021**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0077**	**0.0091**	**0.0094**	**0.014**	**0.001**	**0.001**	**0.00066**	**0.00049**	**0.00051**	**0.00042**
delta-BHC	0.00005(DL)	**0.00021**	**0.00026**	**0.00044**	**0.00092**	**0.00017**	**0.000063**	**0.000083**	<0.00005	<0.00005	**0.00026**
Dieldrin	0.0001(DL)	**0.00017**	**0.00015**	**0.00026**	**0.00021**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	**0.00013**	**0.00027**	**0.00013**	**0.00011**	**0.00007**	**0.000098**	**0.00023**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		0.00808	0.00951	0.01019	0.01545	0.00137	0.00172	0.00096	0.00087	0.00072	0.00112
pH (std units)		4.24	4.34	4.84	4.62	4.78	3.92	4.13	4.12	4.36	5.35
Specific Conductance (mS/cm)		0.481	0.564	0.48	0.45	1.2	1.61	1.36	1.51	1.54	1.31
Turbidity (NTUs)		0.7	8.9	56.6	1.73	9.7	10.3	17.5	43	10.1	7.76
DO (mg/L)		4.01	2.24	6.03		0.2	2.02	3.84	0.69	1.73	
ORP (mV)		219	399	360		360	389	191	363	348	

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**	**TW-7**
Sample Date	*Concentrations*	**6/1/2015**	**11/14/2014**	**5/21/2014**	**11/18/2013**	**05/29/2013**	**05/30/2012**	**6/5/2015**	**11/18/2014**	**5/22/2014**	**11/19/2013**
Metals mg/L											
Total Arsenic	0.01	**0.00731**	<0.005	<0.005	<0.005	**0.00821**	<0.005	<0.005	**0.0152**	**0.0126**	**0.0136**
Total Copper	1.3	**1.08**	**0.0656**	**0.380**	**0.111**	**0.917**	**0.195**	**134**	**124**	**153**	**256**
Total Lead	0.015	<0.001	<0.001	<0.001	**0.00158**	**0.00115**	<0.001	**0.0364**	**0.0286**	<0.001	**0.0941**
Total Zinc	2	**125.0**	**0.375**	**14.9**	**0.55**	**40.6**	**0.790**	**286**	**204**	**322**	**515**
Dissolved Arsenic	0.01	**0.00612**	<0.005	<0.005	<0.005	**0.00799**	<0.005	<0.005	**0.0147**	**0.011**	<0.005
Dissolved Copper	1.3	**0.941**	**0.079**	**0.401**	**0.0907**	**0.987**	**0.163**	**174**	**99.2**	**125**	**191**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0342**	**0.0275**	**0.0353**	**0.0750**
Dissolved Zinc	2	**37.3**	**0.456**	**15.6**	**0.460**	**40.90**	**0.788**	**347**	**228**	**258**	**370**
Total of Total Metals Concentrations		126.08731	0.4406	15.28	0.66258	41.52636	0.9853	420.0364	328.0438	475.0126	771.1077
Total of Dissolved Metals Concentrations		38.24712	0.535	16.001	0.5507	41.89499	0.9504	521.0342	327.2422	383.0463	561.075
Inorganics mg/L											
Nitrate	10 (NR)	**28**	**8.5**	**27**	**17**	**25**	**74**	**2**	**77**	**110**	**73**
Sulfate	250 (NR)	**670**	**230**	**460**	**260**	**960**	**440**	**270**	**5000**	**3900**	**5700**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	**0.0018**	<0.00005	**0.00059**	<0.00005	**0.0029**	**0.00013**	**0.00039**	**0.00045**	**0.00031**	**0.00040**
alpha-Chlordane	0.002	<0.00005	<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**	**0.0015**	**0.0014**	**0.0013**	**0.00040**
delta-BHC	0.00005(DL)	**0.00057**	<0.00005	**0.00019**	<0.00005	**0.00054**	<0.00005	**0.000086**	**0.00011**	**0.000058**	<0.000050
Dieldrin	0.0001(DL)	<0.0001	<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**	**0.00028**	**0.00032**	**0.00025**	**0.00018**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		0.00514	0.00130	0.00114	0.00098	0.00674	0.00126	0.00226	0.00228	0.00192	0.00098
pH (std units)		5.12	4.09	4.6	4.22	4.83	4.51	3.64	3.88	3.72	3.39
Specific Conductance (mS/cm)		1.68	0.986	1.32	1.08	2.27	2.04	5.3	5.73	5.2	8.14
Turbidity (NTUs)		0.3	10.7	8.3	9.56	0	3.58	15.7	8.38	0	9.80
DO (mg/L)		0.2	2.53	3.63	3.06	1.87		0	5.45	2.53	2.20
ORP (mV)		299	370	173	3.77	301		230	275	315	286

TABLE 3 SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-7	TW-7	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8
Sample Date	*Concentrations*	**05/28/2013**	**06/01/2012**	**6/2/2015**	**11/14/2014**	**5/19/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/15/2013**	**1/21/2013**
Metals mg/L											
Total Arsenic	0.01	**0.0139**	<0.05	**0.0979**	**0.121**	**0.104**	**0.128**	**0.101**	**0.135**	**0.164**	**0.155**
Total Copper	1.3	**170**	**95.0**	**0.0199**	**0.0106**	**0.00847**	**0.013**	**0.0110**	**0.0085**	**0.0903**	**0.0159**
Total Lead	0.015	**0.0117**	**0.0391**	**0.00237**	<0.001	<0.001	**0.00134**	**0.00211**	<0.001	<0.001	**0.0088**
Total Zinc	2	**310**	**226**	**2.02**	**3.590**	**2.54**	**2.60**	**1.52**	**1.72**	**4.05**	**3.27**
Dissolved Arsenic	0.01	**0.0127**	<0.100	**0.0369**	**0.0146**	**0.0738**	**0.121**	**0.0831**	**0.0857**	**0.0457**	**0.156**
Dissolved Copper	1.3	**175**	**88.4**	**0.00244**	**0.0035**	<0.002	<0.002	<0.002	<0.002	**0.0234**	<0.002
Dissolved Lead	0.015	**0.00829**	**0.0404**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**323**	**237**	**1.37**	**2.980**	**2.07**	**1.47**	**1.12**	**1.08**	**3.04**	**2.84**
Total of Total Metals Concentrations		480.0256	320.68909	2.140	3.722	2.652	2.742	1.634	1.863	4.3043	**3.450**
Total of Dissolved Metals Concentrations		498.02099	325.7004	1.4093	2.9981	2.1438	1.5910	1.2031	1.1657	3.1091	**2.996**
Inorganics mg/L											
Nitrate	10 (NR)	**60**	**140**	<2.5	<12	<0.25	<2.5	<12	<12	<2.5	<2.5
Sulfate	250 (NR)	**5000**	**2900**	**650**	**630**	**600**	**980**	**890**	**990**	**1100**	**390**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.0001	<0.0001	**0.0039**	**0.019**	<0.0001	**0.007**	**0.0057**	**0.0051**	**0.0019**	<1.0
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.0001	**0.0013**	**0.00049**	<0.001	<0.0001	<0.1
4,4´-DDT	0.0001	<0.0001	<0.0001	**0.015**	**0.350**	<0.0001	**0.15**	**0.0500**	**0.0085**	**0.0013**	**3.2**
alpha-BHC	0.00005(DL)	**0.00021**	**0.00029**	**0.45**	**0.340**	**0.007**	**0.760**	**0.310**	**0.740**	**0.410**	**10.0**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.005	<0.00005	**0.00031**	**0.00015**	<0.0005	<0.0025	<0.050
beta-BHC	0.00005(DL)	**0.00039**	**0.0013**	**0.054**	**0.140**	**0.0022**	**0.22**	**0.092**	**0.11**	**0.05**	**1.50**
delta-BHC	0.00005(DL)	**0.000074**	**0.00017**	**1.2**	**0.160**	**0.008**	**2.40**	**2.40**	**2.20**	**1.30**	**9.3**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	**0.0036**	<0.01	<0.0001	**0.0074**	**0.0074**	**0.0062**	**0.0027**	<0.1
gamma-BHC	0.0002	**0.00015**	**0.00029**	**0.97**	**0.230**	**0.0034**	**2.0**	**1.2**	**1.8**	**1.2**	**6.2**
gamma-Chlordane	0.002	<0.00005	<0.00005	**0.001**	<0.005	<0.00005	**0.0018**	**0.0011**	**0.0011**	<0.0025	<0.05
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.005	<0.00005	<0.00005	<0.0005	<0.0005	<0.0025	**0.260**
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.50
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<5.0
Total Pesticides		0.00082	0.00201	2.69750	1.23900	0.02060	5.54781	4.06684	4.871	2.966	30.46
pH (std units)		3.73	4.02	4.32	5.81	6.18	6.35	6.19	6.34	6.36	5.90
Specific Conductance (mS/cm)		5.62	6.15	1.97	1.97	1.76	2.503	2.893	2.689	2.749	1.117
Turbidity (NTUs)		16.8	3.48	0	67.0	0	4.05	14.5	1.2	4.8	328
DO (mg/L)		1.87		0.17	2.35	2.4	1.35	1.57	0.58	0.79	1.63
ORP (mV)		309		66	-41	20	-109.6	-87.5	-87.4	-41.2	-9.7

TABLE 3 SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	TW-8	TW-9	TW-9	TW-9	TW-9	TW-9	TW-9	TW-10	TW-10	TW-10
Sample Date	*Concentrations*	**05/31/2012**	**6/8/2015**	**11/17/2014**	**5/22/2014**	**11/18/2013**	**05/28/2013**	**05/31/2012**	**6/8/2015**	**11/17/2014**	**5/22/2014**
Metals mg/L											
Total Arsenic	0.01	**0.101**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.0668**	**0.105**	**0.110**	**0.0599**	**0.0701**	**0.0407**	**0.0168**	**14.2**	**16.90**	**17.10**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	**0.00161**	<0.001	<0.001	<0.001	<0.001	**0.0143**
Total Zinc	2	**4.43**	**7.89**	**4.51**	**3.09**	**2.42**	**2.20**	**1.26**	**16.80**	**18.20**	**21.9**
Dissolved Arsenic	0.01	**0.0174**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.0278**	**0.0964**	**0.0921**	**0.04850**	**0.00950**	**0.0343**	**0.0158**	**19.2**	**19.2**	**15.4**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**4.16**	**4.84**	**4.54**	**3.01**	**2.26**	**1.92**	**1.18**	**22.20**	**21.2**	**18.9**
Total of Total Metals Concentrations		4.59973	7.995	4.620	3.150	2.492	2.2407	1.27475	31	35.1	39.0143
Total of Dissolved Metals Concentrations		4.20515	4.9364	4.6321	3.0585	2.2695	1.9543	1.19178	41.4	40.40	34.30000
Inorganics mg/L											
Nitrate	10 (NR)	<2.5	<0.25	<0.25	<2.5	<1.2	<1.2	**0.49**	**2.50**	**1.8**	<2.5
Sulfate	250 (NR)	**750**	**610**	**340**	**250**	**170**	**170**	**170**	**730**	**600**	**900**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.01	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.01	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.01	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.64**	**0.0085**	**0.0088**	**0.014**	**0.0015**	**0.0009**	**0.0074**	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.11**	**0.0059**	**0.0044**	**0.0014**	**0.00056**	**0.00091**	**0.0054**	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	**1.6**	**0.0065**	**0.0077**	**0.0066**	**0.00073**	**0.00048**	**0.0043**	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.01	<0.0001	<0.0001	<0.0001	**0.00041**	<0.00010	**0.00010**	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**1.3**	**0.0017**	**0.0011**	**0.00035**	**0.000094**	**0.000069**	**0.0011**	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	**0.041**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		3.6385	0.022600	0.022000	0.0224	0.0033	0.00236	0.01826	BDL	BDL	BDL
pH (std units)		6.18	1.93	5.26	5.53	5.33	5.4	5.78		3.46	3.67
Specific Conductance (mS/cm)		1.91	0.835	0.918	0.637	0.565	0.878	0.61		1.27	1.12
Turbidity (NTUs)		2.01	0.5	2.21	1.66	0.0	7.83	0.47		9.89	3.42
DO (mg/L)			1.53	2.12	0.7	0.77	3.8			2.74	2.17
ORP (mV)			469	231	199	157	230			430	445

TABLE 3 SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**TW-10**	**TW-10**	**TW-10**	**TW-11**	**TW-11**	**TW-11**	**TW-11**	**TW-11**	**TW-11**	**TW-12**
Sample Date	*Concentrations*	**11/18/2013**	**05/24/2013**	**05/31/2012**	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/13/2013**	**05/23/2013**	**05/31/2012**	**5/27/2015**
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	<0.005
Total Copper	1.3	**9.66**	**11.4**	**6.98**	**0.142**	**0.130**	**0.147**	**0.146**	**0.145**	**0.132**	**0.00831**
Total Lead	0.015	**0.00161**	**0.00182**	**0.00271**	**0.00147**	**0.00104**	**0.00148**	**0.00195**	**0.00233**	**0.00252**	<0.001
Total Zinc	2	**16.2**	**13.6**	**9.24**	**0.504**	**0.514**	**0.591**	**0.513**	**0.566**	**0.738**	**0.214**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**11.5**	**10.5**	**6.43**	**0.126**	**0.135**	**0.134**	**0.144**	**0.126**	**0.121**	**0.00927**
Dissolved Lead	0.015	<0.001	**0.00113**	**0.00228**	<0.001	<0.001	**0.00144**	**0.00154**	**0.00209**	**0.00212**	<0.001
Dissolved Zinc	2	**14.4**	**12.5**	**8.66**	**0.461**	**0.501**	**0.514**	**0.47**	**0.495**	**0.688**	**0.207**
Total of Total Metals Concentrations		25.86161	25.00182	16.221709	0.64747	0.64504	0.73948	0.66095	0.71333	0.872222	0.22231
Total of Dissolved Metals Concentrations		25.90000	23.00113	15.09528	0.587	0.636	0.64944	0.61554	0.62309	0.811023	0.21627
Inorganics mg/L											
Nitrate	10 (NR)	<2.5	**3.6**	**2.9**	**5.1**	**2.8**	**4.4**	**3.7**	**3.5**	**3.7**	**2.2**
Sulfate	250 (NR)	**530**	**620**	**490**	**160**	**150**	**170**	**180**	**160**	**170**	**72**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	**0.000091**	<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	<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	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	**0.00023**	<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	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	**0.00012**	<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	<0.00005
Heptachlor	0.0004	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	0.00045	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		3.69	3.87	4.1	4.4	4.10	4.24	4.27	4.37	4.78	4.86
Specific Conductance (mS/cm)		1.06	1.28	0.92	0.345	0.519	0.476	0.464	0.7	0.51	0.203
Turbidity (NTUs)		0.00	9.57	6.43	9.71	9.53	1.9	6.16	9.81	0.81	2.7
DO (mg/L)		2.50	6.23		1.57	3.83	3.35	3.6	3.48		2.47
ORP (mV)		412	454		404	-30	232	357	350		361

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**TW-12**	**TW-12**	**TW-12**	**TW-12**	**TW-12**	**MW-1B**	**MW-1B**	**MW-1B**	**MW-1B**	**MW-1B**
Sample Date	*Concentrations*	**11/11/2014**	**5/13/2014**	**11/12/2013**	**05/23/2013**	**05/31/2012**	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/12/2013**	**05/21/2013**
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	<0.005
Total Copper	1.3	**0.0041**	**0.00258**	<0.002	<0.002	**0.00291**	**0.00838**	**0.00585**	**0.0209**	**0.0167**	**0.0124**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	**0.00491**	**0.00408**	**0.00348**
Total Zinc	2	**0.204**	**0.134**	**0.182**	**0.263**	**0.0715**	**0.0310**	**0.019**	**0.0876**	**0.0403**	**0.0547**
Dissolved Arsenic	0.01	<0.005	<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	**0.00413**	**0.00305**	<0.002	**0.00266**	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.191**	**0.178**	**0.195**	**0.231**	**0.0529**	**0.0238**	**0.0174**	**0.0349**	<0.01	<0.01
Total of Total Metals Concentrations		0.2081	0.13658	0.182	0.263	0.074373	0.03938	0.02485	0.11341	0.06108	0.07058
Total of Dissolved Metals Concentrations		0.191	0.178	0.195	0.231	0.05291	0.02793	0.02045	0.0349	0.00266	BDL
Inorganics mg/L											
Nitrate	10 (NR)	<1.2	**1.7**	**3.0**	**3.2**	**2.7**	**4.9**	**6.2**	**3.5**	**7.0**	**3.0**
Sulfate	250 (NR)	**60**	**69**	**75**	**68**	**67**	**33**	**37**	**38**	**34**	**35**
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	<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	<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	<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	<0.00005
alpha-Chlordane	0.002	<0.00005	<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	<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	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<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	<0.00005
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		4.5	4.83	5.19	5.47	6.15	6.44	5.14	5.81	6.13	6.16
Specific Conductance (mS/cm)		0.292	0.215	0.238	0.493	0.36	0.338	0.474	0.401	0.418	0.57
Turbidity (NTUs)		4.1	3.6	9.89	8.7	15.2	0.5	0.0	2.3	0.99	8.03
DO (mg/L)		6.48	6.43	4.41	5.2		3.57	2.10	5.73	4.35	4.78
ORP (mV)		266	334	165	220		67	205	197	202	137

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-1B**	**MW-1B**	**MW-22**	**MW-22**	**MW-22**	**MW-22**	**MW-22**	**MW-22**	**MW-22**	**MW-25**
Sample Date	*Concentrations*	**11/13/2012**	**7/29/2010 & 9/13/2010**	**5/29/2015**	**11/12/2014**	**5/19/2014**	**11/13/2013**	**5/22/2013**	**11/14/2012**	**7/28/2010 & 9/13/2010**	**6/2/2015**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0038**	<0.005
Total Copper	1.3	**0.0232**	<0.005	**1.56**	**2.30**	**2.23**	**2.93**	**0.354**	**2.01**	**4.0**	**0.269**
Total Lead	0.015	**0.00113**	<0.0015	**0.00235**	**0.00306**	**0.00518**	**0.00446**	<0.001	**0.00553**	**0.004**	**0.0153**
Total Zinc	2	**0.0679**	<0.02	**4.15**	**4.290**	**3.73**	**4.90**	**1.48**	**4.23**	**8.3**	**3.31**
Dissolved Arsenic	0.01	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005
Dissolved Copper	1.3	**0.0258**	na	**1.46**	**2.16**	**2.02**	**1.90**	**0.308**	**1.68**	na	**0.291**
Dissolved Lead	0.015	<0.001	na	**0.0019**	**0.00342**	**0.00294**	**0.00446**	<0.001	**0.0049**	na	**0.0138**
Dissolved Zinc	2	**0.0767**	na	**3.92**	**3.74**	**4.33**	**3.05**	**1.44**	**2.97**	na	**3.5**
Total of Total Metals Concentrations		0.09223	BDL	5.71235	6.59306	5.96518	7.83446	1.834	6.24553	12.3078	3.5943
Total of Dissolved Metals Concentrations		0.1025		5.3819	5.90342	6.35294	4.95446	1.748	4.6549		3.8048
Inorganics mg/L											
Nitrate	10 (NR)	**3.6**	**4.5**	**2.1**	**1.7**	**1.6**	<2.5	**3.7**	<2.5	**1.5**	**1.2**
Sulfate	250 (NR)	**32**	**35**	**390**	**310**	**400**	**380**	**470**	**380**	**750**	**260**
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	<0.000097	<0.0001
4,4´-DDE	0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.000048	**0.00014**	**0.00019**	**0.00027**	**0.00019**	**0.00018**	**0.00022**	**0.00079**	**0.00014**
alpha-Chlordane	0.002	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00049	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.000048	**0.00055**	**0.00054**	**0.00079**	**0.00043**	**0.001**	**0.00052**	**0.00096**	**0.0035**
delta-BHC	0.00005(DL)	<0.00005	<0.000048	**0.000057**	**0.000091**	**0.00013**	<0.00005	**0.00016**	**0.00013**	**0.00026**	**0.00011**
Dieldrin	0.0001(DL)	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001
gamma-BHC	0.0002	<0.00005	<0.000048	**0.00013**	**0.00016**	**0.00023**	**0.00016**	**0.00015**	**0.00021**	**0.00047**	<0.00005
gamma-Chlordane	0.002	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005
Heptachlor	0.0004	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005
Methoxychlor	0.04	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097	<0.0005
Toxaphene	0.003	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049	<0.005
Total Pesticides		BDL	BDL	0.00088	0.00098	0.00142	0.00078	0.00149	0.00108	0.00248	0.00375
pH (std units)		6.25	5.92/5.17	4.34	3.81	4.52	4.12	5.77	3.98	3.97/4.01	4.18
Specific Conductance (mS/cm)		0.983	0.36/0.35	0.606	0.760	0.806	0.662	1.03	0.682	0.76/1.03	0.439
Turbidity (NTUs)		6.35	6.4/2.76	0	2.2	10.7	1.23	0.27	0.9	6.8/1.98	8.7
DO (mg/L)		3.5		0	2.1	1.85	0.71	1.25	1.09		0.98
ORP (mV)		163		312	437	2.86	241	167	319		375

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-26	MW-26	MW-26	MW-26
Sample Date	*Concentrations*	**11/18/2014**	**5/1/2014**	**11/18/2013**	**5/24/2013**	**7/4/1905**	**9/14/2010**	**5/28/2015**	**11/12/2014**	**5/14/2014**	**11/13/2013**
Metals mg/L											
Total Arsenic	0.01	<0.005	Well could	Well was	**0.0327**	Well was	**0.0027**	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.204**	not be located	dry and	**0.363**	dry and	**0.32**	**0.0102**	**0.0126**	**0.0193**	**0.144**
Total Lead	0.015	**0.025**	and was not	was not	**0.314**	was not	**0.02**	<0.001	**0.00139**	**0.00247**	**0.00122**
Total Zinc	2	**2.88**	sampled	sampled	**3.26**	sampled	**2.9**	**0.142**	**0.168**	**0.166**	**0.164**
Dissolved Arsenic	0.01	<0.005			<0.005		na	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.195**			**0.317**		na	**0.0097**	**0.0109**	**0.0137**	**0.00811**
Dissolved Lead	0.015	**0.0181**			**0.0283**		na	<0.001	<0.001	<0.001	**0.00100**
Dissolved Zinc	2	**2.86**			**3.43**		na	**0.136**	**0.179**	**0.149**	**0.16**
Total of Total Metals Concentrations		3.109			3.9697		3.2427	0.1522	0.18199	0.18777	0.30922
Total of Dissolved Metals Concentrations		3.0731			3.7753			0.1457	0.1899	0.1627	0.16911
Inorganics mg/L											
Nitrate	10 (NR)	**0.33**			**1.9**		**4.7**	**1.3**	**1.0**	**0.73**	<1.2
Sulfate	250 (NR)	**190**			**240**		**200**	**230**	**190**	**230**	**190**
Organochlorine Pesticides mg/L											
4,4´-DDD	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		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001			<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00014**			**0.00026**		**0.00019**	**0.000061**	**0.000071**	**0.00009**	**0.000056**
alpha-Chlordane	0.002	<0.00005			<0.00005		<0.00048	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0074**			**0.0021**		**0.00095**	**0.00043**	**0.00051**	**0.00052**	**0.00039**
delta-BHC	0.00005(DL)	**0.00010**			**0.000075**		**0.00013**	**0.000074**	<.000050	**0.00009**	**0.000074**
Dieldrin	0.0001(DL)	<0.0001			<0.0001		<0.000095	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005			**0.00008**		**0.00012**	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005			<0.00005		na	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	<0.00005			<0.00005		<0.000048	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005			<0.0005		<0.000095	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005			<0.005		<0.0048	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.00764			0.002515		0.00139	0.000565	0.0006	0.0007	0.000520
pH (std units)		4.49	DRY	DRY	4.46	DRY	4.07	4.94	3.95	4.84	5.03
Specific Conductance (mS/cm)		0.578			0.776		0.49	0.499	0.573	0.517	0.460
Turbidity (NTUs)		0.0			354		9.7	0	3.9	9.51	2.46
DO (mg/L)		4.51			7.99			0	0.25	1.77	0.49
ORP (mV)		150			282			303	306	295	230

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number / **Sample Date**	*HSRA Type 1 RRS Concentrations*	**MW-26 5/22/2013**	**MW-26 11/14/2012**	**MW-26 7/28/2010 & 9/13/2010**	**MW-101 5/27/2015**	**MW-101 11/11/2014**	**MW-101 5/13/2014**	**MW-101 11/12/2013**	**MW-101 5/21/2013**	**MW-101 11/12/2012**	**MW-101 7/28/2010 & 9/13/2010**
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	<0.0025
Total Copper	1.3	**0.0146**	**0.0204**	**0.01**	**0.0175**	**0.00850**	**0.0156**	**0.0112**	**0.00866**	**0.0331**	**0.022**
Total Lead	0.015	**0.00136**	**0.00799**	<0.0015	**0.00292**	**0.00161**	**0.00679**	**0.00308**	**0.00251**	**0.00252**	**0.0035**
Total Zinc	2	**0.209**	**0.228**	**0.16**	**0.925**	**0.263**	**0.977**	**0.909**	**0.937**	**0.158**	**0.66**
Dissolved Arsenic	0.01	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na
Dissolved Copper	1.3	**0.00873**	**0.00814**	na	**0.00839**	**0.00791**	**0.00427**	**0.00404**	**0.00585**	**0.0328**	na
Dissolved Lead	0.015	<0.001	<0.001	na	**0.00139**	<0.001	<0.001	**0.00210**	<0.001	**0.00201**	na
Dissolved Zinc	2	**0.175**	**0.219**	na	**0.8**	**0.275**	**0.788**	**0.977**	**0.928**	**0.151**	na
Total of Total Metals Concentrations		0.22496	0.25639	0.17	0.94542	0.27311	0.99939	0.92328	0.94817	0.19362	0.6855
Total of Dissolved Metals Concentrations		0.18373	0.22714		0.80978	0.28291	0.79227	0.98314	0.93385	0.18581	
Inorganics mg/L											
Nitrate	10 (NR)	**3.0**	**6.4**	**4.8**	**6.5**	**5.5**	**9.7**	**10**	**9.9**	**1.5**	**11**
Sulfate	250 (NR)	**170**	**85**	**210**	**72**	**66**	**74**	**76**	**70**	**46**	**84**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
alpha-BHC	0.00005(DL)	**0.000081**	<0.00005	**0.00011**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00049
beta-BHC	0.00005(DL)	**0.00036**	**0.000096**	**0.00054**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
delta-BHC	0.00005(DL)	**0.000067**	<0.00005	**0.00014**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097
gamma-BHC	0.0002	<0.00005	<0.00005	**0.00007**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
gamma-Chlordane	0.002	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na
Heptachlor	0.0004	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049
Methoxychlor	0.04	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097
Toxaphene	0.003	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049
Total Pesticides		0.000508	0.000096	0.00086	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)		5.02	5.54	4.47/4.99	4.65	3.84	4.43	4.65	4.71	4.62	4.32/4.5
Specific Conductance (mS/cm)		0.657	0.339	0.51/0.42	0.218	0.254	0.295	0.275	0.402	0.161	0.22/0.26
Turbidity (NTUs)		60.3	101	7.1/5.14	3.8	1.1	0.7	7.2	10.2	7.73	2.44/0.89
DO (mg/L)		1.35	1.02		0	0.96	2.39	0.97	2.08	0.49	
ORP (mV)		231	205		311	330	223	3	272	289	

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-104A**	**MW-104A**	**MW-104A**
Sample Date	*Concentrations*	**5/27/2015**	**11/11/2014**	**5/13/2014**	**11/12/2013**	**5/21/2013**	**11/13/2012**	**7/29/2010 & 9/14/2010**	**6/1/2015**	**11/12/2014**	**5/14/2014**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00977**	**0.00626**	**0.0152**	**0.0115**	**0.00836**	**0.00934**	<0.005	<0.002	<0.002	**0.0244**
Total Lead	0.015	**0.00115**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0025**	<0.001	<0.001	**0.00548**
Total Zinc	2	**0.129**	**0.0276**	**0.377**	**0.0342**	**0.0407**	**0.0245**	<0.02	**0.0109**	<0.010	**0.0503**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00726**	**0.00433**	**0.00565**	<0.002	<0.002	**0.0089**	na	<0.002	<0.002	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.107**	**0.0277**	**0.293**	**0.0257**	**0.0227**	**0.0247**	na	<0.01	<0.01	<0.01
Total of Total Metals Concentrations		0.13992	0.03386	0.3922	0.0457	0.04906	0.03384	0.0025	BDL	BDL	0.08018
Total of Dissolved Metals Concentrations		0.11426	0.03203	0.29865	0.0257	0.0227	0.0336		BDL	BDL	BDL
Inorganics mg/L											
Nitrate	10 (NR)	**2.7**	<2.5	**2.5**	**3.0**	**4.0**	**2.3**	**5.1**	<0.25	<0.25	<0.25
Sulfate	250 (NR)	**200**	**190**	**270**	**280**	**58**	**45**	**160**	**85**	**84**	**89**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.0001	<0.0001	<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	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00049	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<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	<0.00005
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			5.01	4.82	4.38	5.37	5.62	4.84/5.54	6.72	5.79	6.45
Specific Conductance (mS/cm)			0.366	0.713	0.923	0.251	0.227	0.41/0.37	0.766	0.870	0.874
Turbidity (NTUs)			0.3	499	215	6.9	0	1.11/0.03	0	3.6	15.7
DO (mg/L)			0.0	3.46	3.43	4.39	3.07		0	0.18	0.32
ORP (mV)			222	312	205	228	202		-112	-95	-92

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104A**	**MW-104D**	**MW-104D**	**MW-104D**	**MW-104D**	**MW-104D**	**MW-104D**
Sample Date	*Concentrations*	**11/14/2013**	**5/28/2013**	**11/14/2012**	**9/15/2010**	**6/3/2015**	**11/13/2014**	**5/15/2014**	**11/15/2013**	**5/28/2013**	**11/14/2012**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00411**	**0.00427**	<0.002	<0.005	**0.00553**	**0.00367**	**0.00560**	<0.002	**0.0107**	**0.00816**
Total Lead	0.015	**0.00158**	<0.001	<0.001	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00114**
Total Zinc	2	**0.0126**	**0.0112**	<0.01	<0.02	<0.010	<0.010	**0.0152**	**0.0327**	**0.0181**	**0.0164**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	<0.002	<0.002	na	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dissolved Lead	0.015	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	<0.01	<0.01	<0.01	na	**0.025**	<0.01	<0.01	<0.01	<0.01	<0.01
Total of Total Metals Concentrations		0.01829	0.01547	BDL	BDL	0.00553	0.00367	0.0208	0.0327	0.0288	0.0257
Total of Dissolved Metals Concentrations		BDL	BDL	BDL		0.025	BDL	BDL	BDL	BDL	BDL
Inorganics mg/L											
Nitrate	10 (NR)	<0.25	<0.25	<0.25	<0.25	**0.34**	<2.5	<1.2	<0.25	<1.2	<2.5
Sulfate	250 (NR)	**93**	**87**	**73**	**93**	<1.0	<10	<5.0	<1	<5	<10
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	**0.000069**	<0.00005	<0.00005
gamma-Chlordane	0.002	<0.00005	<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	<0.000047	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.000069	BDL	BDL
pH (std units)		6.41	6.41	6.48	6.24	6.58	6.06	6.41	6.25	6.38	6.44
Specific Conductance (mS/cm)		0.797	0.859	0.876	0.74	3.1	3.19	2.77	3.1	2.61	2.93
Turbidity (NTUs)		9.13	0	0	1.49	49.7	20.2	429	8.2	21.2	27.7
DO (mg/L)		0.35	1.03	2		0	0.0	0.24	0.41	1.59	2.27
ORP (mV)		-128	-111	-98		-130	-67	-54	-69	-71	-67

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-104D**	**MW-105**	**MW-105**	**MW-105**	**MW-105**	**MW-105**	**MW-105**	**MW-105**	**MW-105**	**MW-106D**
Sample Date	*Concentrations*	**9/15/2010**	**6/1/2015**	**11/14/2014**	**5/13/2014**	**11/14/2013**	**5/21/2013**	**12/5/2012**	**11/15/2012**	**9/15/2010**	**6/2/2015**
Metals mg/L											
Total Arsenic	0.01	**0.0042**	<0.005	<0.005	<0.005	**0.00552**	<0.005	na	<0.005	<0.0025	<0.005
Total Copper	1.3	<0.005	**0.00906**	**0.00404**	**0.0134**	**0.0112**	**0.00564**	na	**0.0114**	**0.0057**	**0.00529**
Total Lead	0.015	<0.0015	**0.003**	**0.00154**	**0.00131**	**0.00487**	<0.001	na	<0.001	<0.0015	<0.001
Total Zinc	2	<0.02	**0.0305**	**0.0109**	**0.0443**	**0.0217**	**0.0265**	na	**0.0475**	**0.024**	**0.273**
Dissolved Arsenic	0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	na	<0.005
Dissolved Copper	1.3	na	**0.005**	<0.002	**0.00676**	<0.002	<0.002	na	**0.00851**	na	**0.00357**
Dissolved Lead	0.015	na	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	na	<0.001
Dissolved Zinc	2	na	**0.0188**	<0.01	**0.0381**	<0.01	**0.0216**	na	**0.0108**	na	**0.28**
Total of Total Metals Concentrations		BDL	0.04256	0.01648	0.05901	0.04329	0.03214		0.0589	0.0297	0.27829
Total of Dissolved Metals Concentrations			0.0238	BDL	0.04486	BDL	0.0216		0.01931		0.28357
Inorganics mg/L											
Nitrate	10 (NR)	<0.25	<0.25	<0.25	<0.25	<0.25	**0.28**	na	<0.25	<0.25	**0.61**
Sulfate	250 (NR)	<5	**310**	**97**	**220**	**160**	**230**	na	**71**	**97**	**380**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
4,4´-DDE	0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
4,4´-DDT	0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
alpha-BHC	0.00005(DL)	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.00014**	<0.000047	**0.0066**
alpha-Chlordane	0.002	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005
beta-BHC	0.00005(DL)	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	**0.0022**
delta-BHC	0.00005(DL)	<0.000047	<0.00005	**0.000075**	<0.00005	<0.00005	<0.00005	<0.00005	**0.0002**	<0.000047	**0.0079**
Dieldrin	0.0001(DL)	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001
gamma-BHC	0.0002	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	**0.0038**
gamma-Chlordane	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005
Heptachlor	0.0004	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	<0.00005
Methoxychlor	0.04	<0.000094	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	<0.0005
Toxaphene	0.003	<0.0047	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005
Total Pesticides		BDL	BDL	0.000075	BDL	BDL	BDL	BDL	0.00034	BDL	0.0205
pH (std units)		6.51		5.13	5.22	5.31	5.69	6	6.13	5.57	6.46
Specific Conductance (mS/cm)		3.13		0.514	0.570	0.442	0.619	0.514	0.477	0.36	0.963
Turbidity (NTUs)		18		188	23.6	13.2	9.61	15.1	9.91	9.7	0
DO (mg/L)				1.1	2.36	1.48	0.95	2.98	4.37		0
ORP (mV)				131	129	127	107	63.3	75		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**	**MW-107D**
Sample Date	*Concentrations*	**11/13/2014**	**5/19/2014**	**11/15/2013**	**5/29/2013**	**11/15/2012**	**9/15/2010**	**6/1/2015**	**11/13/2014**	**5/21/2014**	**11/18/2013**
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	<0.005
Total Copper	1.3	**0.00298**	**0.00456**	**0.00897**	**0.00481**	**0.00471**	<0.005	**0.00511**	**0.00407**	**0.00754**	**0.0101**
Total Lead	0.015	<0.001	<0.001	**0.00146**	**0.00124**	<0.001	<0.0015	<0.001	<0.001	<0.001	**0.00203**
Total Zinc	2	**0.182**	**0.167**	**0.239**	**0.183**	**0.16**	**0.11**	<0.01	**0.0235**	**0.0231**	**0.0176**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.00347**	**0.00492**	**0.00427**	**0.00233**	na	**0.00328**	<0.002	**0.00458**	**0.012**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	**0.00213**
Dissolved Zinc	2	**0.172**	**0.178**	**0.168**	**0.162**	**0.149**	na	<0.01	**0.0197**	**0.0141**	**0.0179**
Total of Total Metals Concentrations		0.18498	0.17156	0.24943	0.18905	0.16471	0.11	0.00511	0.02757	0.03064	0.02973
Total of Dissolved Metals Concentrations		0.172	0.18147	0.17292	0.16627	0.15133		0.00328	0.0197	0.01868	0.03203
Inorganics mg/L											
Nitrate	10 (NR)	**0.47**	**0.37**	<2.5	<1.2	**1.4**	**1.4**	**3.5**	**4.2**	**5.2**	**4.5**
Sulfate	250 (NR)	**440**	**340**	**390**	**400**	**380**	**430**	**170**	**200**	**180**	**210**
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	<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	<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	<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	<0.00005
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	<0.00005	<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	<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	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<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	<0.00005
gamma-Chlordane	0.002	<0.00005	<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	<0.000047	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	<0.005	<0.005	<0.005	<0.005
Total Pesticides		0.0122	0.0201	0.0191	0.0214	0.0212	0.0252	BDL	BDL	BDL	BDL
pH (std units)		5.84	6.1	6.05	6.09	6.2	6.28		5.21	5.6	5.60
Specific Conductance (mS/cm)		1.29	1.04	1.15	1.25	1.27	1.25		0.641	0.678	0.678
Turbidity (NTUs)		0.0	0	0	0	0.9	0		0.2	4	0
DO (mg/L)		7.88	1.43	3.54	2.25	0.49			2.28	2.35	1.67
ORP (mV)		-73	206	111	129	-53			216	208	223

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-107D**	**MW-107D**	**MW-107D**	**MW-107D**	**MW-108**	**MW-108**	**MW-108**	**MW-108**	**MW-108**	**MW-108**
Sample Date	*Concentrations*	**5/22/2013**	**12/5/2012**	**11/19/2012**	**9/15/2010**	**5/28/2015**	**11/12/2014**	**5/15/2014**	**11/13/2013**	**5/23/2013**	**11/13/2012**
Metals mg/L											
Total Arsenic	0.01	<0.005	na	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00257**	na	**0.00614**	<0.005	**0.151**	**0.174**	**0.155**	**0.241**	**0.225**	**0.242**
Total Lead	0.015	<0.001	na	<0.001	<0.0015	<0.001	<0.001	<0.001	**0.00253**	<0.001	<0.001
Total Zinc	2	**0.0155**	na	**0.0151**	<0.02	**2.02**	**2.470**	**2.24**	**2.86**	**2.75**	**2.81**
Dissolved Arsenic	0.01	<0.005	na	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.00295**	na	**0.00574**	na	**0.161**	**0.138**	**0.158**	**0.208**	**0.2**	**0.239**
Dissolved Lead	0.015	<0.001	na	<0.001	na	<0.001	<0.001	<0.001	**0.00222**	<0.001	<0.001
Dissolved Zinc	2	<0.01	na	**0.0151**	na	**2.24**	**2.3**	**2.33**	**2.33**	**2.44**	**2.58**
Total of Total Metals Concentrations		0.01807		0.02124	BDL	2.171	2.644	2.395	3.10353	2.975	3.052
Total of Dissolved Metals Concentrations		0.00295		0.02084		2.401	2.438	2.488	2.54022	2.64	2.819
Inorganics mg/L											
Nitrate	10 (NR)	**6.0**	na	**5.0**	**4.7**	<0.25	**<0.25**	**0.35**	<1.2	<1.2	**0.66**
Sulfate	250 (NR)	**230**	na	**200**	**190**	**260**	**200**	**260**	**93**	**220**	**210**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000048	**0.0063**	**0.0029**	**0.0048**	**0.0021**	**0.0028**	**0.0009**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000048	**0.0012**	**0.0011**	**0.0018**	**0.00081**	**0.00077**	**0.00051**
delta-BHC	0.00005(DL)	<0.00005	<0.00005	**0.000056**	<0.000048	**0.0037**	**0.0072**	**0.0059**	**0.0006**	**0.00044**	**0.00033**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	**0.00035**	<0.0001	<0.0001
gamma-BHC	0.0002	<0.00005	<0.00005	<0.00005	<0.000048	**0.00046**	**0.00018**	**0.00025**	**0.00017**	**0.00022**	**0.000085**
gamma-Chlordane	0.002	<0.00005	<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	<0.000048	<0.00005	<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	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides		BDL	BDL	0.000056	BDL	0.01176	0.01138	0.01275	0.00403	0.00423	0.001825
pH (std units)		5.68	5.53	5.76	5.52		5.15	5.27	4.55	4.71	4.74
Specific Conductance (mS/cm)		0.699	0.646	0.643	0.58		0.334	0.684	0.566	0.566	0.533
Turbidity (NTUs)		0	0	0.02	0		8.7	10.1	4.64	0	9
DO (mg/L)		1.65	0.95	0.06			0	1.92	0.46	0.84	0.98
ORP (mV)		200	213.8	202			333	257	238	299	251

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-108**	**MW-109**	**MW-109**	**MW-109**	**MW-109**	**MW-109**	**MW-109**	**MW-109**	**MW-110**	**MW-110**
Sample Date	*Concentrations*	**7/29/2010 &9/14/2010**	**6/3/2015**	**11/18/2014**	**5/15/2014**	**11/15/2013**	**5/23/2013**	**11/16/2012**	**9/14/2010**	**5/29/2015**	**11/12/2014**
Metals mg/L											
Total Arsenic	0.01	<0.0025	**0.181**	**0.0342**	**0.292**	**0.0533**	**0.253**	**0.211**	**0.061**	<0.005	<0.005
Total Copper	1.3	**0.3**	**0.0782**	**0.178**	**0.0817**	**0.0737**	**0.00569**	**0.0735**	**0.079**	**0.357**	**0.352**
Total Lead	0.015	<0.0015	**1.02**	**0.932**	**3.83**	**0.738**	**0.358**	**1.53**	**0.61**	<0.001	<0.001
Total Zinc	2	**3.6**	**25.7**	**25.3**	**21.2**	**35.5**	**14.3**	**18.7**	**25**	**5.09**	**5.1**
Dissolved Arsenic	0.01	na	**0.158**	**0.0258**	**0.208**	**0.0382**	**0.22**	**0.16**	na	<0.005	<0.005
Dissolved Copper	1.3	na	**0.0732**	**0.241**	**0.0103**	**0.0693**	**0.00505**	**0.0218**	na	**0.35**	**0.291**
Dissolved Lead	0.015	na	**0.565**	**0.480**	**0.224**	**0.285**	**0.0175**	**0.436**	na	<0.001	<0.001
Dissolved Zinc	2	na	**29.2**	**25.1**	**22.2**	**25.6**	**12.4**	**17.6**	na	**4.81**	**4.89**
Total of Total Metals Concentrations		3.9	26.9792	26.4442	25.4037	36.365	14.91669	20.5145	25.75	5.447	5.452
Total of Dissolved Metals Concentrations			29.9962	25.8468	22.6423	25.9925	12.64255	18.2178		5.16	5.181
Inorganics mg/L											
Nitrate	10 (NR)	**0.42**	<2.5	<12	<1.2	**9.6**	<12	<0.25	**0.38**	**3.9**	**3.5**
Sulfate	250 (NR)	**320**	**1400**	**1200**	**1500**	**1500**	**1300**	**1100**	**1300**	**320**	**250**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001
4,4´-DDE	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.0058**	**0.029**	**0.033**	**0.033**	**0.024**	**0.03**	**0.03**	**0.0028**	**0.00076**	**0.0005**
alpha-Chlordane	0.002	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0024**	**0.0033**	**0.0046**	**0.0033**	**0.0038**	**0.0035**	**0.0037**	<0.00048	**0.00032**	**0.00033**
delta-BHC	0.00005(DL)	**0.0018**	**0.0032**	**0.0058**	**0.0039**	**0.004**	**0.0037**	**0.0049**	<0.00048	**0.0015**	**0.0014**
Dieldrin	0.0001(DL)	**0.000098 P**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001
gamma-BHC	0.0002	**0.0002 P**	**0.018**	**0.022**	**0.019**	**0.015**	**0.017**	**0.024**	**0.0019**	**0.00086**	**0.0006**
gamma-Chlordane	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005
Heptachlor	0.0004	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005
Methoxychlor	0.04	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005
Toxaphene	0.003	<0.0048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.005	<0.005
Total Pesticides		0.0103	0.0535	0.0654	0.0592	0.0468	0.0542	0.0626	0.0047	0.0034	0.0028
pH (std units)		4.3/5.14		4.31	4.19	4.8	4.65	4.74	4.56		5.27
Specific Conductance (mS/cm)		0.72/0.68		2.86	2.86	2.94	2.72	2.81	2.71		0.498
Turbidity (NTUs)		2.15/0.8		0	4.8	0	3.95	0	0.1		4.1
DO (mg/L)				2.08	0.88	0.72	0.7	0.58			0
ORP (mV)				229	179	190	73	130			310

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-110**	**MW-110**	**MW-110**	**MW-110**	**MW-110**	**MW-110**	**MW-110**	**MW-111**	**MW-111**	**MW-111**
Sample Date	*Concentrations*	**5/15/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/16/2013**	**11/14/2012**	**7/29/2010 & 9/14/2010**	**6/3/2015**	**11/18/2014**	**5/19/2014**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005
Total Copper	1.3	**0.323**	**0.395**	**0.376**	**0.396**	**0.4**	**0.372**	**0.39**	**0.0283**	**0.0351**	**0.0357**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0015**	<0.001	<0.001	**0.0011**
Total Zinc	2	**5.29**	**6.29**	**5.05**	**5.69**	**6.92**	**5.9**	**5.7**	**5.4**	**4.96**	**7.17**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**0.31**	**0.405**	**0.323**	**0.381**	**0.38**	**0.375**	na	**0.0503**	**0.0336**	**0.0299**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001
Dissolved Zinc	2	**4.54**	**5.28**	**4.47**	**5.19**	**6.25**	**4.81**	na	**5.65**	**4.55**	**5.47**
Total of Total Metals Concentrations		5.613	6.685	5.426	6.086	7.32	6.272	6.0915	5.4283	4.9951	7.2068
Total of Dissolved Metals Concentrations		4.85	5.685	4.793	5.571	6.63	5.185		5.7003	4.5836	5.4999
Inorganics mg/L											
Nitrate	10 (NR)	**4**	**4.1**	**2.9**	**4.0**	**4.4**	**4.8**	**9.8**	<0.25	<5.0	**0.3**
Sulfate	250 (NR)	**300**	**330**	**270**	**310**	**340**	**300**	**310**	**560**	**450**	**500**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
4,4´-DDE	0.0001	<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	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00043**	**0.00088**	**0.00045**	**0.0006**	**0.0012**	**0.00069**	**0.00047**	**0.01**	**0.030**	**0.039**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00031**	**0.00035**	**0.00027**	**0.0004**	**0.00036**	**0.00044**	**0.00043**	**0.0043**	**0.0069**	**0.0058**
delta-BHC	0.00005(DL)	**0.0011**	**0.0017**	**0.00089**	**0.0014**	**0.0022**	**0.0013**	**0.00088**	**0.034**	**0.11**	**0.1**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00057**	**0.0012**	**0.00054**	**0.0008**	**0.0013**	**0.00067**	**0.00055**	**0.017**	**0.06**	**0.078**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005	<0.0048	<0.005	<0.005	<0.005
Total Pesticides		0.0024	0.0041	0.0022	0.0032	0.00506	0.0031	0.00233	0.0653	0.2069	0.2228
pH (std units)		5.19	5.16	4.85	5.13	5.19	5.30	5.03/5.04	5.96	5.34	5.76
Specific Conductance (mS/cm)		0.844	0.697	0.731	0.765	0.84	1.02	0/0.94	1.18	1.43	1.39
Turbidity (NTUs)		0	0.92	0.22	10.7	1.2	0	0.22/0.6	0	0.7	0
DO (mg/L)		1.07	0.58	0.58	0.44	0.51	0.41		0	0.0	1.21
ORP (mV)		149	177.7	208	219.4	235.3	143		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	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**	**5/28/2015**	**11/11/2014**	**5/14/2014**	**11/13/2013**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	**0.00783**	**0.0117**	**0.00684**	**0.013**
Total Copper	1.3	**0.0242**	**0.0197**	**0.0231**	**0.0276**	**0.0255**	**0.039**	**0.0504**	**0.0462**	**0.0536**	**0.0775**
Total Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0015	<0.001	<0.001	**0.00109**	**0.00132**
Total Zinc	2	**7.3**	**4.75**	**5.42**	**6.44**	**5.1**	**4.4**	**2.13**	**1.10**	**1.62**	**1.61**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.01	na	**0.00969**	**0.0121**	**0.00651**	**0.0106**
Dissolved Copper	1.3	**0.0237**	**0.0153**	**0.0218**	**0.0271**	**0.0206**	na	**0.0455**	**0.0415**	**0.0521**	**0.0655**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.002	na	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**5.40**	**4.31**	**4.96**	**6.0**	**4.83**	na	**2.09**	**1.130**	**1.65**	**1.26**
Total of Total Metals Concentrations		7.3242	4.7697	5.4431	6.4676	5.1255	4.439	2.1882	1.1579	1.6815	1.7018
Total of Dissolved Metals Concentrations		5.4237	4.3253	4.9818	6.0271	4.8506		2.14519	1.1836	1.70861	1.3361
Inorganics mg/L											
Nitrate	10 (NR)	<1.2	<2.5	<1.2	<1.2	**0.4**	<0.25	**1.5**	<2.5	**0.43**	<2.5
Sulfate	250 (NR)	**510**	**440**	**440**	**480**	**440**	**240**	**370**	**170**	**620**	**480**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	**0.014**	**0.015**	**0.02**	**0.012**	**0.012**	**0.014**	**0.00078**	**0.00091**	**0.0021**	**0.00034**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0069**	**0.0048**	**0.0051**	**0.0045**	**0.0051**	<0.01	**0.0068**	**0.0021**	**0.022**	**0.0063**
delta-BHC	0.00005(DL)	**0.052**	**0.065**	**0.049**	**0.021**	**0.021**	**0.03**	**0.00064**	**0.00021**	**0.0026**	**0.0002**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	**0.00014**	<0.0001	<0.00010	**0.00026**	<0.0001
gamma-BHC	0.0002	**0.029**	**0.028**	**0.035**	**0.014**	**0.0082**	<0.01	**0.00014**	**0.00013**	**0.0007**	**0.000093**
gamma-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	na	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.100	<0.100	<0.005
Total Pesticides		0.10190	0.11280	0.10910	0.0515	0.0463	0.04414	0.00836	0.00335	0.02766	0.006933
pH (std units)		5.74	5.55	5.74	5.81	5.88	5.79	6.08	5.87	5.53	5.50
Specific Conductance (mS/cm)		1.052	1.079	1.113	1.207	1.32	1.22	0.849	0.354	1.23	1.18
Turbidity (NTUs)		0.12	0.26	3.7	1.2	0	0.81	0	3.0	3	5.81
DO (mg/L)		0.73	0.94	0.65	0.6	0.46		0	0.0	2.07	0.47
ORP (mV)		129.1	167.9	180.1	151.6	69		174	189	177	185

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-112**	**MW-112**	**MW-112**	**MW-113**	**MW-113**	**MW-113**	**MW-113**	**MW-113**	**MW-113**	**MW-113**
Sample Date	*Concentrations*	**5/22/2013**	**11/13/2012**	**7/28/2010 & 9/13/2010**	**6/2/2015**	**11/17/2014**	**5/15/2014**	**11/15/2013**	**5/24/2013**	**11/15/2012**	**9/15/2010**
Metals mg/L											
Total Arsenic	0.01	**0.0115**	**0.0144**	**0.015**	**0.0177**	**0.039**	<0.005	**0.0135**	**0.0235**	<0.005	**0.023**
Total Copper	1.3	**0.0794**	**0.0546**	**0.054**	**13.2**	**19.5**	**26.7**	**19.4**	**20.3**	**12.9**	**15**
Total Lead	0.015	**0.0026**	**0.0011**	<0.0015	**0.0185**	**0.00931**	**0.0111**	**0.0166**	**0.0052**	**0.00812**	**0.0019**
Total Zinc	2	**2.45**	**0.563**	**1**	**4.1**	**124**	**134**	**99.9**	**114**	**69.5**	**95**
Dissolved Arsenic	0.01	**0.00747**	**0.0134**	na	**0.0189**	**0.05**	<0.005	<0.005	**0.0234**	<0.025	na
Dissolved Copper	1.3	**0.0499**	**0.0441**	na	**12.4**	**25.2**	**26.4**	**12.9**	**21.8**	**11.9**	na
Dissolved Lead	0.015	<0.001	<0.001	na	**0.00545**	**0.0116**	**0.0104**	**0.0104**	**0.00387**	**0.00785**	na
Dissolved Zinc	2	**2.35**	**0.559**	na	**72.2**	**146**	**132**	**92.3**	**124**	**71.4**	na
Total of Total Metals Concentrations		2.5435	0.6331	1.069	17.3362	143.54831	160.7111	119.3301	134.3287	82.40812	110.0249
Total of Dissolved Metals Concentrations		2.40737	0.6165		84.62435	171.2616	158.4104	105.2104	145.82727	83.30785	
Inorganics mg/L											
Nitrate	10 (NR)	**1.8**	**1.5**	**0.89**	<2.5	**1.2**	<1.2	<2.5	<25	**1.8**	**1.6**
Sulfate	250 (NR)	**580**	**100**	**220**	**810**	**2000**	**2600**	**2500**	**2100**	**1700**	**2100**
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	<0.000094
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094
alpha-BHC	0.00005(DL)	**0.013**	**0.000076**	<0.0025	**0.00025**	**0.00032**	**0.00048**	**0.00029**	**0.00042**	**0.0004**	**0.0014**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047
beta-BHC	0.00005(DL)	**0.016**	**0.00039**	**0.031**	**0.00076**	**0.00093**	**0.0010**	**0.00067**	**0.00087**	**0.00078**	**0.0018**
delta-BHC	0.00005(DL)	**0.015**	<0.00005	<0.0025	**0.00017**	**0.00026**	**0.00029**	**0.00018**	**0.00018**	**0.00027**	**0.0016**
Dieldrin	0.0001(DL)	**0.0005**	<0.0001	**0.00012**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094
gamma-BHC	0.0002	**0.0056**	<0.00005	**0.00059**	**0.00026**	**0.00033**	**0.00045**	**0.00029**	**0.00041**	**0.00037**	**0.0012**
gamma-Chlordane	0.002	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na
Heptachlor	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047
Methoxychlor	0.04	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047
Total Pesticides		0.0501	0.000466	0.03171	0.00144	0.00184	0.00222	0.00143	0.00188	0.00182	0.006
pH (std units)		5.51	5.49	5.52/5.51		3.45	3.31	3.56	3.65	3.7	3.69
Specific Conductance (mS/cm)		1.6	0.731	0.55/0.57		3.37	3.47	3.36	3.0	2.69	2.58
Turbidity (NTUs)		9.9	9.89	5.1/4.04		3.3	16.1	15.1	110	26.5	5.21
DO (mg/L)		1.58	0.78			0.0	0.47	0.42	2.95	0.48	
ORP (mV)		149	143			378	404	349	201	226	

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-114**	**MW-114**	**MW-114**	**MW-114**	**MW-114**	**MW-114**	**MW-114**	**MW-115**	**MW-115**	**MW-115**
Sample Date	*Concentrations*	**6/2/2015**	**11/18/2014**	**5/15/2014**	**11/14/2013**	**5/24/2013**	**11/15/2012**	**9/14/2010**	**6/1/2015**	**11/14/2014**	**5/16/2014**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005
Total Copper	1.3	**1.48**	**1.55**	**1.28**	**1.80**	**1.93**	**1.6**	**2.2**	**5.11**	**4.3**	**6.07**
Total Lead	0.015	**0.00159**	**0.00200**	**0.00388**	**0.00325**	<0.001	**0.00299**	**0.004**	**0.00205**	**0.00632**	**0.00116**
Total Zinc	2	**7.93**	**6.26**	**8.12**	**9.04**	**9.74**	**8.66**	**8.7**	**11.4**	**18.6**	**15.1**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	na	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**1.51**	**1.53**	**1.15**	**1.51**	**1.82**	**1.55**	na	**4.16**	**4.210**	**4.22**
Dissolved Lead	0.015	<0.001	**0.00200**	**0.00252**	**0.00223**	<0.001	**0.00281**	na	**0.00145**	**0.00862**	<0.001
Dissolved Zinc	2	**7.18**	**6.00**	**6.00**	**6.25**	**9.17**	**7.96**	na	**11.2**	**18.20**	**16.4**
Total of Total Metals Concentrations		9.41159	7.812	9.40388	10.84325	11.67	10.26299	10.904	16.51205	22.90632	21.17116
Total of Dissolved Metals Concentrations		8.69	7.532	7.15252	7.76223	10.99	9.51281		15.36145	22.41862	20.62
Inorganics mg/L											
Nitrate	10 (NR)	**29**	**16**	**29**	**69**	**35**	**31**	**19**	**1.3**	**1.7**	<5.0
Sulfate	250 (NR)	**480**	**380**	**440**	**850**	**450**	**460**	**290**	**780**	**650**	**880**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	**0.00015**	**0.0001**	**0.00022**	**0.00023**	**0.00024**	**0.00018**	**0.00024**	**0.00028**	**0.00026**	**0.00027**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.0018**	**0.0022**	**0.0022**	**0.0011**	**0.00064**	**0.00074**	**0.0046**	**0.00033**	**0.00026**	**0.00019**
delta-BHC	0.00005(DL)	**0.000066**	**0.00013**	**0.00011**	**0.000095**	<0.00005	**0.000077**	**0.00011 P**	**0.000058**	**0.000073**	<0.00005
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00012**	**0.000091**	**0.00011**	**0.00012**	**0.00012**	**0.00012**	**0.00027**	**0.000079**	**0.000076**	**0.000078**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<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	<0.005
Total Pesticides		0.002	0.003	0.003	0.002	0.001	0.001117	0.00522	0.00075	0.00067	0.00054
pH (std units)			3.43	3.62	3.92	4.04	4.08	4.05	3.69	3.30	3.7
Specific Conductance (mS/cm)			1.23	1.28	1.31	1.36	1.38	1.13	1.07	1.51	1.39
Turbidity (NTUs)			4.2	5.6	3.72	1.72	5.3	4.97	0	0.1	8.5
DO (mg/L)			0.0	0.54	0.43	0.87	0.65		0	0.0	1.72
ORP (mV)			325	298	269	352	244		412	422	236

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**MW-115**	**MW-115**	**MW-115**	**MW-115**	**MW-116**	**MW-116**	**MW-116**	**MW-116**	**MW-116**	**MW-116**
Sample Date	*Concentrations*	**11/13/2013**	**5/24/2013**	**11/15/2012**	**9/14/2010**	**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	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	Well was
Total Copper	1.3	**3.91**	**3.45**	**4.04**	**6.7**	**1.85**	**2.54**	**2.45**	**3.25**	**1.91**	dry and
Total Lead	0.015	**0.0132**	**0.00124**	**0.00292**	<0.0015	**0.00187**	**0.00112**	**0.00386**	**0.00533**	**0.00162**	was not
Total Zinc	2	**12.3**	**9.56**	**9.96**	**20**	**5.06**	**7.06**	**8.90**	**8.66**	**4.62**	sampled
Dissolved Arsenic	0.01	<0.005	<0.005	<0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	**2.78**	**3.37**	**3.57**	na	**1.88**	**3.25**	**2.15**	**2.65**	**1.47**	
Dissolved Lead	0.015	**0.0126**	**0.0011**	**0.00601**	na	**0.00109**	**0.00102**	**0.00359**	**0.00409**	<0.001	
Dissolved Zinc	2	**7.66**	**10.7**	**9.76**	na	**5.14**	**8.85**	**6.53**	**6.25**	**3.56**	
Total of Total Metals Concentrations		16.2232	13.01124	14.00292	26.7	6.91187	9.60112	11.35386	11.91533	6.53162	
Total of Dissolved Metals Concentrations		10.4526	14.0711	13.33601		7.02109	12.10102	8.68359	8.90409	5.03	
Inorganics mg/L											
Nitrate	10 (NR)	<2.5	<2.5	**2.2**	**3.2**	**14**	**28**	**18**	**72**	**16**	
Sulfate	250 (NR)	**720**	**580**	**730**	**430**	**500**	**430**	**660**	**570**	**400**	
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)	**0.00016**	**0.00016**	**0.00028**	**0.00024**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
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)	**0.00018**	**0.00026**	**0.00026**	**0.00013**	**0.00031**	**0.00055**	**0.00019**	**0.00025**	**0.00026**	
delta-BHC	0.00005(DL)	<0.00005	<0.00005	**0.000074**	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
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	<0.00005	<0.00005	**0.000065**	**0.000073**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
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		0.00034	0.00042	0.00068	0.00044	0.00031	0.00055	0.00019	0.00025	0.00026	
pH (std units)		3.63	3.75	3.71	3.76		4.05	4.06	3.55	4.24	
Specific Conductance (mS/cm)		1.20	1.13	1.32	1.18		0.999	1.48	0.652	1.17	
Turbidity (NTUs)		8.9	0	0	0.21		7.1	2.1	148	9.16	
DO (mg/L)		0.58	1.06	0.38			0	3.87	1.42	6.1	
ORP (mV)		290	409	389			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-119	MW-119
Sample Date	*Concentrations*	**7/28/2010 & 9/13/2010**	**6/2/2015**	**11/17/2014**	**5/19/2014**	**11/15/2013**	**5/23/2013**	**11/15/2012**	**9/14/2010**	**6/5/2015**	**11/18/2014**
Metals mg/L											
Total Arsenic	0.01	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005
Total Copper	1.3	**4.1**	**0.0295**	**0.0678**	**0.0362**	**0.0438**	**0.0318**	**0.0453**	**0.038**	**0.0106**	**0.00514**
Total Lead	0.015	**0.0073**	**0.00117**	**0.00282**	**0.00109**	**0.00172**	**0.00107**	**0.00193**	<0.0015	<0.001	<0.001
Total Zinc	2	**12**	**0.802**	**1.01**	**0.809**	**1.01**	**1.05**	**0.794**	**1.6**	**0.76**	**0.677**
Dissolved Arsenic	0.01	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005
Dissolved Copper	1.3	na	**0.0321**	**0.0761**	**0.0378**	**0.033**	**0.0272**	**0.0410**	na	<0.002	**0.00369**
Dissolved Lead	0.015	na	<0.001	**0.00178**	<0.001	<0.001	<0.001	**0.00115**	na	<0.001	<0.001
Dissolved Zinc	2	na	**0.865**	**0.991**	**0.95**	**0.878**	**0.879**	**0.775**	na	**0.69**	**0.689**
Total of Total Metals Concentrations		16.1073	0.83267	1.08062	0.84629	1.05552	1.08287	0.84123	1.638	0.7706	0.68214
Total of Dissolved Metals Concentrations			0.8971	1.06888	0.9878	0.911	0.9062	0.81715		0.69	0.69269
Inorganics mg/L											
Nitrate	10 (NR)	**91**	**3.4**	**3.1**	**3.3**	**3.9**	**4.0**	**3.8**	**2.5**	<0.25	<0.25
Sulfate	250 (NR)	**710**	**150**	**130**	**140**	**140**	**140**	**130**	**260**	**92**	**170**
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	<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	<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	<0.0001
alpha-BHC	0.00005(DL)	**0.00019**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.00049**	**0.00064**
alpha-Chlordane	0.002	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.00063**	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.00052**	**0.00062**
delta-BHC	0.00005(DL)	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	**0.000056**	<0.00005	**0.00053**	**0.001**
Dieldrin	0.0001(DL)	<0.000095	<0.0001	<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	**0.000085**	**0.00013**
gamma-Chlordane	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005
Heptachlor	0.0004	<0.000048	<0.00005	<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	<0.0001	<0.0005	<0.0005
Toxaphene	0.003	<0.0048	<0.005	<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	0.000056	BDL	0.001625	0.002390
pH (std units)		3.92/3.94		3.52	4.21	4.17	4.23	4.18	4.24		5.64
Specific Conductance (mS/cm)		2.06/2.3		0.414	0.408	0.416	0.419	0.396	0.51		0.740
Turbidity (NTUs)		3.75/4.95		1.3	7.2	8.78	9.79	10.41	8.19		6.8
DO (mg/L)				1.40	2.95	1.43	1.42	6.8			7.45
ORP (mV)				421	382	353	364	398			-21

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-119	MW-119	MW-119	MW-119	MW-120	MW-120	MW-120	MW-120	MW-120	MW-120
Sample Date	*Concentrations*	**5/21/2014**	**11/18/2013**	**5/28/2013**	**12/6/2012**	**6/4/2015**	**11/19/2014**	**5/21/2014**	**11/18/2013**	**5/28/2013**	**12/7/2012**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	**0.00117 J**	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.00386**	**0.00391**	**0.0158**	<0.005	**0.0063**	**0.0108**	**0.0584**	**0.0124**	**0.0129**	**0.0289**
Total Lead	0.015	**0.00183**	**0.00276**	**0.0059**	**0.0012**	<0.001	**0.00197**	**0.04600**	**0.0018**	**0.00418**	**0.0295**
Total Zinc	2	**1.38**	**0.778**	**1.18**	**0.656**	**0.533**	**0.690**	**1.41**	**1.23**	**0.894**	**1.88**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.000536	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	<0.002	**0.00530**	**0.00697**	<0.002	**0.00268**	**0.0042**	**0.0029**	**0.00554**	**0.0067**	**0.00223**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0000990	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**1.36**	**0.677**	**0.877**	**0.532**	**0.458**	**0.667**	**1.18**	**1.07**	**0.737**	**1.74**
Total of Total Metals Concentrations		1.38569	0.78467	1.2017	0.6572	0.5393	0.70277	1.5144	1.2442	0.91108	1.9384
Total of Dissolved Metals Concentrations		1.36	0.6823	0.88397	0.532	0.46068	0.6712	1.1829	1.07554	0.7437	1.74223
Inorganics mg/L											
Nitrate	10 (NR)	<0.25	<0.25	<1.2	<0.25	<0.25	<0.14	<0.25	<1.2	<1.2	<0.25
Sulfate	250 (NR)	**120**	**94**	**110**	**150**	**170**	**170**	**150**	**150**	**160**	**410**
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	<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	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.0001	**0.00018**	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00005(DL)	**0.00140**	**0.00050**	**0.00060**	**0.00087**	**0.0012**	**0.00096**	**0.00095**	**0.00090**	**0.00063**	**0.0035**
alpha-Chlordane	0.002	<0.00005	<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**	**0.00042**	**0.00051**	**0.00066**	**0.0013**	**0.0011**	**0.00099**	**0.00089**	**0.00075**	**0.0042**
delta-BHC	0.00005(DL)	**0.0016**	**0.00051**	**0.00053**	**0.00073**	**0.0011**	**0.001**	**0.0014**	**0.00071**	**0.00046**	**0.0031**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.00025**	**0.0001**	**0.00012**	**0.00013**	<0.00005	<0.00005	**0.000084**	<0.00005	<0.00005	**0.0011**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		0.004350	0.001530	0.00176	0.00257	0.00360	0.00306	0.00342	0.00250	0.0018	0.0119
pH (std units)		5.44	6.25	5.75	5.99		5.59	5.61	5.57	5.38	6.3
Specific Conductance (mS/cm)		0.719	0.731	0.647	0.646		0.85	0.693	0.640	0.645	0.95
Turbidity (NTUs)		6.1	7.4	107	3.1		82	279	8.3	78.9	76.1
DO (mg/L)		0.52	0.43	4.78	0.6		6.05	0.53	8.93	3.06	6.42
ORP (mV)		44	-59	49	40.4		82	93	85	175	58.6

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	OW-1	OW-1	OW-1	OW-1
Sample Date	*Concentrations*	**6/5/2015**	**11/13/2014**	**5/19/2014**	**11/18/2013**	**5/29/2013**	**12/6/2012**	**6/3/2015**	**5/19/2014**	**1/8/2014**	**10/9/2013**
Metals mg/L											
Total Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0801**	**0.102**	**0.0493**	**0.0375**
Total Copper	1.3	**0.0309**	**0.0113**	**0.00695**	**0.00330**	**0.00429**	**0.0295**	**0.25**	**0.181**	**0.471**	**0.417**
Total Lead	0.015	<0.001	<0.001	**0.00136**	<0.001	<0.001	**0.0012**	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**0.0204**	**0.0434**	**0.0194**	**0.0112**	**0.0313**	**1.59**	**5.75**	**7.71**	**17.2**	**14.6**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.0226**	**0.0228**	**0.0281**	**0.0121**
Dissolved Copper	1.3	**0.0066**	**0.00286**	**0.00223**	**0.00469**	**0.0106**	**0.0112**	**0.0869**	**0.0724**	**0.345**	**0.23**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.00135**	<0.001	<0.001	<0.001
Dissolved Zinc	2	**0.0163**	**0.0196**	**0.0125**	**0.0692**	**0.0153**	**1.25**	**5.9**	**5.62**	**14.9**	**16.7**
Total of Total Metals Concentrations		0.0513	0.0547	0.02771	0.0145	0.03559	1.6207	**6.080**	**7.993**	**17.720**	**15.055**
Total of Dissolved Metals Concentrations		0.0229	0.02246	0.01473	0.07389	0.0259	1.2612	**6.011**	**5.715**	**15.273**	**16.942**
Inorganics mg/L											
Nitrate	10 (NR)	<0.25	**0.43**	**0.4**	**0.45**	**0.32**	**0.59**	<0.25	<0.25	<2.5	<5.0
Sulfate	250 (NR)	**12**	**50**	**42**	**64**	**56**	**220**	**350**	**450**	**600**	**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	<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	<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**	<0.0001
alpha-BHC	0.00005(DL)	<0.00005	**0.000054**	**0.00012**	**0.00030**	**0.00018**	**0.0027**	**0.0066**	**0.0086**	**0.0077**	**0.0097**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.000054**	**0.0001**	**0.00012**	**0.00023**	**0.00015**	**0.0011**	**0.0033**	**0.0034**	**0.0039**	**0.0037**
delta-BHC	0.00005(DL)	**0.000071**	<0.000050	**0.00011**	**0.00023**	**0.000078**	**0.0023**	**0.013**	**0.017**	**0.013**	**0.017**
Dieldrin	0.0001(DL)	<0.0001	<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	**0.00009**	<0.00005	**0.0014**	**0.0058**	**0.0067**	**0.0075**	**0.013**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		0.0001	0.0002	0.0004	0.0009	0.000408	0.0075	0.0287	0.0357	0.0322	0.0434
pH (std units)		6.35	6.36	6.03	6.10	5.85	5.97		5.92	5.92	5.71
Specific Conductance (mS/cm)		0.292	0.251	0.369	0.425	0.395	0.633		1.23	1.233	1.404
Turbidity (NTUs)		0	1.8	0	1.45	0.47	3.6		0	2.57	6.35
DO (mg/L)		0	0	0.71	0.74	2.18	3.9		1.75	0.76	0.92
ORP (mV)		149	43	167	82	154	79.6		71.0	55.0	155.3

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**OW-1**	**OW-1**	**OW-1**	**OW-2**	**OW-2**	**OW-2**	**OW-2**	**OW-2**	**OW-2**	**OW-2**
Sample Date	*Concentrations*	**7/16/2013**	**4/15/2013**	**1/20/2013**	**6/3/2015**	**5/20/2014**	**1/8/2014**	**10/9/2013**	**7/16/2013**	**4/16/2013**	**1/20/2013**
Metals mg/L											
Total Arsenic	0.01	**0.0636**	**0.0671**	**0.0918**	**0.0321**	**0.057**	**0.0392**	**0.029**	**0.031**	**0.0314**	**0.0258**
Total Copper	1.3	**0.33**	**0.293**	**0.0929**	**0.0645**	**0.0512**	**0.0439**	**0.0338**	**0.0252**	**0.0159**	**0.0281**
Total Lead	0.015	<0.001	<0.001	**0.00106**	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**11.2**	**15.8**	**5.55**	**5.09**	**5.4**	**8.35**	**6.13**	**6.33**	**4.89**	**2.33**
Dissolved Arsenic	0.01	**0.0188**	**0.0131**	**0.0709**	**0.00919**	**0.0163**	**0.0252**	**0.015**	**0.0168**	**0.0278**	**0.0243**
Dissolved Copper	1.3	**0.129**	**0.0855**	**0.0716**	**0.0291**	**0.0314**	**0.0263**	**0.0222**	**0.018**	**0.00567**	**0.0236**
Dissolved Lead	0.015	<0.001	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	2	**10.7**	**14.3**	**5.75**	**4.52**	**5.32**	**6.31**	**5.80**	**5.95**	**4.83**	**2.24**
Total of Total Metals Concentrations		**11.594**	**16.160**	**5.736**	**5.187**	**5.508**	**8.433**	**6.193**	**6.386**	**4.937**	**2.384**
Total of Dissolved Metals Concentrations		**10.848**	**14.399**	**5.893**	**4.558**	**5.368**	**6.362**	**5.837**	**5.985**	**4.863**	**2.288**
Inorganics mg/L											
Nitrate	10 (NR)	<2.5	<2.5	<2.5	<0.25	<0.14	<2.5	<5.0	<2.5	<2.5	<0.25
Sulfate	250 (NR)	**590**	**800**	**600**	**620**	**710**	**640**	**520**	**530**	**480**	**350**
Organochlorine Pesticides mg/L											
4,4´-DDD	0.0001	<0.0001	**0.00023**	<0.001	**0.00018**	**0.00012**	**0.00019**	**0.00019**	<0.0001	**0.00039**	<0.002
4,4´-DDE	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001
4,4´-DDT	0.0001	<0.0001	<0.0001	<0.001	**0.00021**	**0.000088**	**0.00027**	**0.00015**	<0.0001	**0.00035**	<0.001
alpha-BHC	0.00005(DL)	**0.0088**	**0.0098**	**0.012**	**0.022**	**0.062**	**0.024**	**0.031**	**0.015**	**0.0096**	**0.011**
alpha-Chlordane	0.002	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.00005(DL)	**0.004**	**0.0036**	**0.004**	**0.0052**	**0.011**	**0.011**	**0.007**	**0.0046**	**0.0041**	**0.0043**
delta-BHC	0.00005(DL)	**0.016**	**0.016**	**0.017**	**0.063**	**0.16**	**0.084**	**0.08**	**0.028**	**0.019**	**0.022**
Dieldrin	0.0001(DL)	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	**0.0086**	**0.0077**	**0.0083**	**0.016**	**0.066**	**0.031**	**0.033**	**0.01**	**0.0063**	**0.0038**
gamma-Chlordane	0.002	<0.00005	<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	<0.00005
Methoxychlor	0.04	<0.0005	<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	<0.005
Total Pesticides		0.0374	0.0373	0.0413	0.1066	0.29921	0.15046	0.15134	0.05760	0.03974	0.0411
pH (std units)		5.95	6.08	5.77		5.86	5.75	5.49	5.67	5.78	5.6
Specific Conductance (mS/cm)		1.323	1.753	1.40		1.66	1.251	1.337	1.251	1.08	0.908
Turbidity (NTUs)		75.6	6.9	4.3		6.8	1.16	3.12	14.1	7.1	34
DO (mg/L)		0.43	5.05	1.1		2.01	0.64	0.76	0.37	0.61	1.02
ORP (mV)		45.5	55.9	100.2		60.0	42.8	81.5	98.9	58.1	37.2

TABLE 3: SUMMARY of GROUNDWATER ANALYTICAL RESULTS

Well Number	*HSRA Type 1 RRS*	**OW-3**	**OW-3**	**OW-3**	**OW-3**	**OW-3**	**OW-3**	**OW-3**
Sample Date	*Concentrations*	**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	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	**0.984**	**1.32**	**1.09**	**0.918**	**0.954**	**1.08**	**0.126**
Total Lead	0.015	**0.00179**	**0.00157**	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	2	**9.05**	**15.7**	**12**	**7.81**	**7.42**	**9.3**	**5.44**
Dissolved Arsenic	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	**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
Dissolved Zinc	2	**7.22**	**19.1**	**8.9**	**7.83**	**7.13**	**9.26**	**5.22**
Total of Total Metals Concentrations		**10.036**	**17.022**	**13.090**	**8.728**	**8.374**	**10.380**	**5.566**
Total of Dissolved Metals Concentrations		**8.027**	**20.810**	**9.990**	**8.736**	**8.092**	**10.300**	**5.335**
Inorganics mg/L								
Nitrate	10 (NR)	**0.52**	**8.1**	**1.8**	<2.5	<1.2	<2.5	**0.98**
Sulfate	250 (NR)	**420**	**700**	**460**	**500**	**450**	**540**	**390**
Organochlorine Pesticides mg/L								
4,4´-DDD	0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001
4,4´-DDE	0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.0001
4,4´-DDT	0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	**0.0001**	<0.001
alpha-BHC	0.00005(DL)	**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	<0.0005	<0.0005	<0.0005
beta-BHC	0.00005(DL)	**0.0018**	**0.0013**	**0.0016**	**0.0013**	**0.0019**	**0.0012**	**0.0024**
delta-BHC	0.00005(DL)	**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	<0.001	<0.0001	<0.001
gamma-BHC	0.0002	**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	<0.0005	<0.00005	<0.00005
Heptachlor	0.0004	<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	<0.005	<0.0005	<0.0005
Toxaphene	0.003	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005
Total Pesticides		0.0154	0.0121	0.0063	0.0168	0.0158	0.0114	0.0159
pH (std units)			4.53	4.51	4.32	4.65	4.82	5.06
Specific Conductance (mS/cm)			1.58	0.855	0.992	0.922	1.076	0.93
Turbidity (NTUs)			0	0.47	0.58	2.8	8.1	48
DO (mg/L)			1.2	0.47	0.76	0.39	0.58	0.66
ORP (mV)			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: RB 7/10/2015
Checked by: RNQ 7/13/2015

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW2010-1	SW2010-2	SW2010-3	SW2010-4	SW-2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-6	SW2010-7	SW2010-8	SW2010-9	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10
Sample Date						9/23/2010	9/23/2010	9/23/2010	9/23/2010	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	9/23/2010	9/23/2010	9/23/2010	9/23/2010	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010
PARAMETER, UNITS	**Distance Along Stream (ft)**					0	141	328	478	735	735	735	735	735	735	735	886	963	1040	1092	1152	1152	1152	1152	1152	1152	1152
Total Organochlorine Pesticides (ug/L)	**GA Instream**	**National AWQC**	**National AWQC Human Consumption of Water +Organism**		**GA Instream Human Health**	surface water sample from main channel	surface water sample from main channel	surface water sample from main channel	surface water sample from main channel	surface water sample from main channel							surface water sample from main channel	surface water sample from main channel	surface water sample from main channel	surface water sample from main channel	surface water sample from main channel						
	Ecological Exposure		**Human Health Exposure**																								
alpha-BHC	not established		0.0026	0.0049	0.0049	<0.0057	0.13	0.057	0.039 J	**0.062**	**0.083**	**0.075**	**0.085**	**0.092**	**0.11**	0.13	0.094	0.09	0.18	0.16	**0.11**	**0.097**	**0.12**	**0.17**	**0.18**	**0.15**	0.13
beta-BHC	not established		0.0091	0.017	0.017	<0.0067	0.16 P	0.15	0.14	**0.21**	**0.074**	**0.12**	**0.073**	**0.089**	**0.071**	0.23	0.15	0.16	0.19 P	0.14 P	**0.24**	**0.081**	**0.12**	**0.092**	**0.13**	**0.092**	0.18
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	<0.0059	0.058 P	0.06	0.028 JP	**0.013 J**	**0.0092 J**	**0.014 J**	<0.050	**0.0087 J**	<0.05	0.037 P	0.043 J	0.029 P	0.12	0.1	**0.054**	**0.028 J**	**0.046 J**	**0.060**	**0.066**	<0.05	0.084
delta-BHC	not established		not established			<0.0048	0.22 P	0.13 P	0.11 P	**0.091**	<0.0031	**0.014**	**0.051**	**0.078**	**0.12**	0.2	0.14	0.091 P	0.19 P	0.2	**0.14**	**0.059**	**0.16**	**0.077**	**0.16**	**0.14**	0.11 P
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.1	<0.1	<0.094	<0.094	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.1	<0.094	<0.094	<0.1	<0.095	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094
gamma-Chlordane			0.0008	0.00081	0.00081	NA	NA	NA	NA	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	NA	NA	NA	NA	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0065	<0.0065	<0.0061	<0.0061	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0065	<0.0061	0.014 J	<0.0065	<0.0062	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0061
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0077	<0.0077	<0.0073	<0.0073	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0077	<0.0073	<0.0073	<0.0077	<0.0073	<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	<0.0097	<0.0097	<0.0092	<0.0092	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0097	<0.0092	<0.0092	<0.0097	<0.0092	<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	<0.0091	<0.0091	<0.0086	<0.0086	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0091	<0.0086	<0.0086	0.014 J	<0.0087	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.011 J
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.007	<0.007	<0.0066	<0.0066	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.007	<0.0066	<0.0066	<0.007	<0.0067	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066
Methoxychlor	0.03	0.03	100	not established		<0.013	<0.013	<0.012	<0.012	<0.0005	<0.043	<0.043	<.50	<0.08	<0.5	<0.013	<0.012	<0.012	<0.013	<0.012	<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	<0.5	<0.5	<0.47	<0.47	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.5	<0.47	<0.47	<0.5	<0.48	<0.005	<0.16	<0.16	<5.0	<0.085	<5 NA	<0.47
Total Metals (mg/L)																											
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.09	0.043	0.025	0.016	NA	NA	NA	NA	NA	<0.005	0.008	0.0059	0.0082	0.0053	0.0049	NA	NA	NA	NA	NA	<0.005	0.0041
Copper	0.0158 *	0.0158 *	1.3	not established		0.0043J	0.0065	0.0071	0.016	NA	NA	NA	NA	NA	**0.0161**	0.016	0.012	0.015	0.013	0.011	NA	NA	NA	NA	NA	**0.00796**	0.01
Lead	0.0052 *	0.0052 *	not established			0.0024	0.0015	0.00096 J	0.0046	NA	NA	NA	NA	NA	<0.001	0.00067 J	0.00055 J	0.0032	0.0022	0.00064 J	NA	NA	NA	NA	NA	<0.001	<0.0005
Zinc	0.208*	0.208*	7.4	26	not established	0.016 J	0.027	0.084	0.54	NA	NA	NA	NA	NA	**1.16**	0.97	0.87	0.81	0.65	0.62	NA	NA	NA	NA	NA	**0.736**	0.5
Dissolved Metals (mg/L)																											
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.025	0.0074	0.0014 J	<0.0013	**0.00228 J**	**0.000704 J**	**0.00175 J**	<0.005	**0.00156 J**	<0.005	0.0015 J	0.0018 J	0.0019 J	0.002 J	0.0023 J	**0.00235 J**	**0.000954 J**	**0.00188 J**	<0.005	**0.00172 J**	<0.005	0.0023 J
Copper	0.0158 *	0.0158 *	1.3	not established		0.0012 J	0.0034 J	0.0031 J	0.0073	**0.00517**	**0.00471**	**0.00684**	**0.101**	**0.007**	**0.00365**	0.0074	0.0056	0.006	0.0055	0.0059	**0.0054**	**0.00442**	**0.00663**	**0.0149**	**0.00616**	**0.00404**	0.0054
Lead	0.0052 *	0.0052 *	not established			<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002
Zinc	0.208*	0.208*	7.4	26	not established	<0.0083	0.012 J	0.038	0.56	**0.444**	**0.469**	**0.434**	**0.840**	**0.706**	**1.03**	0.89	0.72	0.76	0.5	0.54	**0.407**	**0.456**	**0.427**	**0.706**	**0.593**	**0.629**	0.44
Total Trichlorobenzenes (ug/L)																											
1,2,3-Trichlorobenzene	not established		not established			<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	<0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.54	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	0.65	NA	NA	NA	**1.2**	**1.8**	**1.7**	**0.72**	**1.3**	**0.55**	0.74	NA	NA	NA	NA	**1.3**	**1.6**	**1.8**	**0.86**	**1.5**	0.79	NA
Sulfate	not established		not established			64	NA	NA	NA	**78**	**100**	**85**	**83**	**93**	**87**	110	NA	NA	NA	NA	**80**	**92**	**89**	**95**	**97**	91	NA
Hardness as CaCo3 (mg/L)	not established		not established			200	NA	NA	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)										7.44	6.96	7.35	5.62	6.61							7.53	7.12	7.44	6.42	6.98		
Specific Conductance (mS/cm)										0.423	0.443	0.501	0.683	0.812							0.429	0.465	0.615	0.66	0.849		
Turbidity (NTUs)										0	5.88	0	0	0							49.2	37.4	0	75.1	0		
DO (mg/L)										3.64	10.65	8.03	7.33	9.68							4.8	4.51	7.54	10.1	8.59		
ORP (mV)										47	27	57	127	51							104	47	122	140	119		

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						SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-12	SW2010-13	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-15	SW2010-15	SW2010-15	SW2010-15
Sample Date						6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	9/23/2010	9/23/2010	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	5/20/2014	11/19/2013
PARAMETER, UNITS	Distance Along Stream (ft)					1222	1222	1222	1222	1222	1222	1222	1367	1511	1667	1667	1667	1667	1667	1667	1667	1761	1761	1761	1761
Total Organochlorine Pesticides (ug/L)	GA Instream	National AWQC	National AWQC Human Consumption of Water +Organism		GA Instream Human Health	surface water sample from main channel	surface water sample from main channel						surface water sample from main channel	surface water sample from main channel	surface water sample from main channel							surface water sample from main channel			
	Ecological Exposure		**Human Health Exposure**																						
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.15**	**0.13**	**0.17**	**0.24**	**0.24**	**0.23**	0.19	0.25	0.5	**0.26**	**0.30**	**0.31**	**0.40**	**0.38**	**0.53**	0.62	**0.17**	**0.29**	**0.27**	**0.36**
beta-BHC	not established		0.0091	0.017	0.017	**0.24**	**0.091**	**0.3**	**0.29**	**0.29**	**0.27**	0.45	0.46	0.63	**0.55**	**0.41**	**0.38**	**0.44**	**0.47**	**0.46**	0.73	**0.45**	**0.4**	**0.36**	**0.40**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.069**	**0.044 J**	**0.074**	**0.091**	**0.097**	**0.098**	0.11	0.13	0.2	**0.083**	**0.086**	**0.093**	**0.12**	**0.12**	**0.15**	0.22	**0.057**	**0.082**	**0.087**	**0.11**
delta-BHC	not established		not established			**0.15**	**0.077**	**0.27**	**0.11**	**0.19**	**0.16**	0.13 P	0.15 P	0.32 P	**0.26**	**0.32**	**0.46**	**0.29**	**0.37**	**0.53**	0.48 P	**0.21**	**0.28**	**0.43**	**0.27**
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094	<0.094	<0.095	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.095	<0.00005	<0.0022	<0.0022	<0.050
gamma-Chlordane			0.0008	0.00081	0.00081	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	NA	NA	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	<0.00005	<0.005	<0.005	<0.050
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0061	<0.0061	<0.0062	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0062	<0.0001	<0.0091	<0.0091	<0.10
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0073	<0.0073	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0001	<0.006	<0.006	<0.10
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	<0.0092	<0.0092	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	<0.0001	<0.0069	<0.0069	<0.10
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.012 J	0.012 J	0.015 J	**0.015 J**	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.015 J	**0.012 J**	<0.0091	<0.0091	<0.10
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066	<0.0066	<0.0067	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0067	<0.00005	<0.0072	<0.0072	<0.050
Methoxychlor	0.03	0.03	100	not established		<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.012	<0.012	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.0005	<0.043	<0.043	<0.50
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.005	<0.16	<0.16	<5.0	<0.085	<5 NA	<0.47	<0.47	<0.48	<0.005	<0.16	<0.16	<5.0	<0.085	<5 NA	<0.48	<0.005	<0.16	<0.16	<5.0
Total Metals (mg/L)																									
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	<0.005	0.0059	0.0067	0.0029	NA	NA	NA	NA	NA	<0.005	0.028	NA	NA	NA	NA
Copper	0.0158 *	0.0158 *	1.3	not established		NA	NA	NA	NA	NA	**0.128**	0.22	0.31	0.11	NA	NA	NA	NA	NA	**0.0918**	0.78	NA	NA	NA	NA
Lead	0.0052 *	0.0052 *	not established			NA	NA	NA	NA	NA	**0.00356**	0.012	0.0019	<0.0005	NA	NA	NA	NA	NA	<0.001	0.014	NA	NA	NA	NA
Zinc	0.208*	0.208*	7.4	26	not established	NA	NA	NA	NA	NA	**2.09**	3	3.2	2.3	NA	NA	NA	NA	NA	**2.46**	15	NA	NA	NA	NA
Dissolved Metals (mg/L)																									
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00236 J**	**0.00102 J**	**0.00174 J**	<0.005	**0.00121 J**	<0.005	0.0016 J	0.0016 J	0.0013 J	**0.00127 J**	**0.000716 J**	**0.0009 J**		**0.00086 J**	<0.01	<0.0013	**0.0013 J**	**0.000827 J**	**0.00096 J**	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		**0.00514**	**0.00434**	**0.00567**	**0.0932**	**0.0564**	**0.0572**	0.097	0.092	0.053	**0.015**	**0.0183**	**0.0244**	**0.0463**	**0.0393**	**0.0215**	0.048	**0.0108**	**0.018**	**0.0181**	**0.0382**
Lead	0.0052 *	0.0052 *	not established			<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	<0.0002	<0.0002	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.002	<0.0002	<0.001	<0.000099	<0.0001	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	**0.406**	**0.435**	**0.377**	**1.68**	**1.6**	**1.74**	2.7	2.6	2.1	**0.852**	**1.27**	**1.11**	**1.89**	**1.62**	**1.96**	2.5	**0.693**	**1.23**	**0.965**	**1.91**
Total Trichlorobenzenes (ug/L)																									
1,2,3-Trichlorobenzene	not established		not established			NA	NA	NA	NA	NA	NA	<1	NA	<0.94	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	<0.56	NA	<0.53	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	**1.3**	**1.6**	**1.7**	**2.2**	**3.0**	**3.1**	4.1	NA	3.3	**1.8**	**1.9**	**2.2**	**1.9**	**2.5**	**2.3**	NA	**1.7**	**1.8**	**2.2**	**1.8**
Sulfate	not established		not established			**82**	**94**	**88**	**120**	**140**	**130**	220	NA	180	**110**	**140**	**130**	**130**	**140**	**140**	NA	**110**	**150**	**130**	**130**
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	NA
pH (std units)						7.34	7.93	7.33	6.43	6.94					7.67	6.98	7.19	6.43	7.03			7.62	6.87	7.36	6.71
Specific Conductance (mS/cm)						0.505	0.553	0.615	0.66	0.963					0.532	0.593	0.58	0.734	1.05			0.532	0.606	0.641	0.722
Turbidity (NTUs)						26.6	3.67	0	67.1	14.2					1.6	13.2	0	25.7	0			13.7	3.89	9.81	22.8
DO (mg/L)						4.54	9.2	8.16	9.98	7.07					4.68	10.44	10.44	9.49	10.02			4.75	11.09	9.93	4.03
ORP (mV)						92	82	150	134	186					92	64	139	134	189			77	85	130	137

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						SW2010-15	SW2010-15	SW2010-15	SW2010-16	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-18	Allied Outfall	Main Point	INFLOW 1	INFLOW 1	INFLOW 1
Sample Date						5/30/2013	11/16/2012	9/23/2010	9/23/2010	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	9/23/2010	5/26/2004	5/26/2004	6/4/2015	11/19/2014	3/31/2014
PARAMETER, UNITS	Distance Along Stream (ft)					1761	1761	1761	1907	2099	2099	2099	2099	2099	2099	2099	2275	downstream from the Allied Ready-Mix outfall on the east side of the tracks	in drainage feature on the west side of the tracks and upstream of railroad culvert	side seep inflowing into drainage feature located on west side of track and upstream of railroad culvert location SW-2010-11		
Total Organochlorine Pesticides (ug/L)	GA Instream	National AWQC	National AWQC Human Consumption of Water +Organism		GA Instream Human Health	surface water sample from main channel			surface water sample from main channel	surface water sample from main channel							surface water sample from main channel	surface water sample from main channel	surface water sample from drainage feature	seep sample		
	Ecological Exposure		Human Health Exposure																			
alpha-BHC	not established		0.0026	0.0049	0.0049	**0.32**	**0.53**	0.62	0.37	**0.2**	**0.29**	**0.24**	**0.33**	**0.32**	**0.45**	0.31	0.45	<0.05	**0.75**	**0.22**	**0.12**	**0.22**
beta-BHC	not established		0.0091	0.017	0.017	**0.41**	**0.46**	0.75	0.6	**0.48**	**0.37**	**0.33**	**0.40**	**0.39**	**0.39**	0.48	0.64	**0.078 P**	**2.4**	**1.9**	**0.079**	**1.2**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	**0.1**	**0.15**	0.22	0.15	**0.068**	**0.082**	**0.075**	**0.098**	**0.096**	**0.13**	0.11	0.17	<0.05	**0.52**	**0.12**	**0.038 J**	**0.11**
delta-BHC	not established		not established			**0.34**	**0.48**	0.44 P	0.33 P	**0.23**	**0.26**	**0.4**	**0.24**	**0.36**	**0.42**	0.21 P	0.3 P	<0.05	**0.46 P**	**0.24**	**0.072**	**0.38**
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.0066	<0.05	<0.095	<0.094	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094	<0.095	<0.5	<0.5	<0.00005	<0.0022	<0.05
gamma-Chlordane			0.0008	0.00081	0.00081	<0.0047	<0.05	NA	NA	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	NA	NA	NA	<0.00005	<0.0050	<0.05
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.1	<0.0062	<0.0061	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0061	<0.0062	<0.1	<0.4	<0.0001	<0.0091	<0.1
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0075	<0.1	<0.0073	<0.0073	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	<0.0073	<0.1	<0.4	<0.0001	<0.0060	<0.1
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.014	<0.1	<0.0092	<0.0092	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	<0.0092	<0.1	<0.4	<0.0001	<0.0069	<0.1
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.013	<0.1	0.017 J	0.012 J	**0.013 J**	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0086	<0.0087	<0.1	<0.4	**0.037 J**	<0.0091	<0.1
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.0038	<0.05	<0.0067	<0.0066	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066	<0.0067	<0.05	<0.2	<0.00005	<0.0072	<0.05
Methoxychlor	0.03	0.03	100	not established		<0.08	<0.5	<0.012	<0.012	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	<0.012	<0.5	<2.0	<0.0005	<0.043	<0.5
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.085	<5 NA	<0.48	<0.47	<0.005	<0.16	<0.16	<5.0	<0.085	<5 NA	<0.47	<0.48	<5.0	<20	<0.005	<0.16	<5
Total Metals (mg/L)																						
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	<0.005	0.0025	0.0055	NA	NA	NA	NA	NA	<0.005	0.0029	0.0032	**0.016**	<0.01	NA	NA	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		NA	**0.0701**	0.084	0.12	NA	NA	NA	NA	NA	**0.0544**	0.054	0.052	<0.02	**1.6**	NA	NA	**0.476**
Lead	0.0052 *	0.0052 *	not established			NA	<0.001	<0.0005	0.0047	NA	NA	NA	NA	NA	<0.001	<0.0005	<0.0005	<0.005	**0.0094**	NA	NA	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	NA	**2.18**	2.4	2.8	NA	NA	NA	NA	NA	**1.83**	1.9	2	**0.68**	**13**	NA	NA	**6.28**
Dissolved Metals (mg/L)																						
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00098 J**	<0.01	<0.0013	<0.0013	**0.00143 J**	**0.000935 J**	**0.00122 J**	<0.005	**0.00096 J**	<0.01	0.0013 J	0.0014 J	NA	NA	**0.000269 J**	**0.000917 J**	<0.005
Copper	0.0158 *	0.0158 *	1.3	not established		**0.0275**	**0.0179**	0.038	0.03	**0.00947**	**0.014**	**0.017**	**0.0314**	**0.0225**	**0.0127**	0.024	0.02	NA	NA	**0.246**	**0.00492**	**0.256**
Lead	0.0052 *	0.0052 *		not established		<0.00014	<0.002	<0.0002	<0.0002	<0.001	<0.000099	<0.0001	**0.00126**	<0.00014	<0.002	<0.0002	<0.0002	NA	NA	<0.001	<0.000099	<0.001
Zinc	0.208*	0.208*	7.4	26	not established	**1.51**	**1.77**	2.2	2.3	**0.697**	**1.12**	**0.956**	**1.75**	**1.31**	**1.47**	1.6	1.7	NA	NA	**6.62**	**0.482**	**6.08**
Total Trichlorobenzenes (ug/L)																						
1,2,3-Trichlorobenzene	not established		not established			NA	NA	<0.95	NA	NA	NA	NA	NA	NA	NA	NA	<0.94	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	<0.53	NA	NA	NA	NA	NA	NA	NA	NA	<0.53	NA	NA	NA	NA	NA
Nitrate and Sulfate (mg/L)																						
Nitrate as N	not established		10 (nitrates)		not established	**2.4**	**2.2**	530	NA	**1.7**	**1.8**	**2.1**	**1.8**	**2.3**	**1.9**	NA	3.1	NA	NA	**7.8**	**1.5**	**9.1**
Sulfate	not established		not established			**140**	**150**	330	NA	**110**	**150**	**120**	**130**	**140**	**130**	NA	190	**85**	**510**	**280**	**92**	**390**
Hardness as CaCo3 (mg/L)	not established		not established			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**120**	**32**	NA	NA	NA
pH (std units)						7.19				7.16	6.26	6.59	6.82	7.38						7.12	6.9	
Specific Conductance (mS/cm)						1.05				0.533	0.593	0.643	0.734	1.04						0.789	0.465	
Turbidity (NTUs)						25.7				11.5	8.74	0	0	10.1						0.3	11.5	
DO (mg/L)						8.93				5.66	13.76	14.19	6.99	7.6						3.37	12.31	
ORP (mV)						181				33	145	92	52	181						136	70	

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						INFLOW 2	INFLOW 2	INFLOW 2	SW2014-20	SW2014-20	SW2014-20	SW2014-21	SW2014-21	SW2014-21
Sample Date						6/4/2015	11/19/2014	3/31/2014	6/4/2015	11/19/2014	5/20/2014	6/4/2015	11/19/2014	5/20/2014
						side seep inflowing into main channel of unnamed stream located on west side of track and downstream of railroad culvert			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	Distance Along Stream (ft)													
	GA Instream	National AWQC	National AWQC Human Consumption of Water +Organism		GA Instream Human Health	seep sample		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	**0.038 J**	**0.17**	<0.05	**0.33**	**0.14**	**0.28**	**0.25**	**0.2**	**0.22**
beta-BHC	not established		0.0091	0.017	0.017	**0.073**	**0.28**	**0.12**	**2.2**	**1.5**	**1.0**	**2.2**	**1.2**	**1.2**
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	<0.00005	**0.058**	<0.05	**0.16**	**0.078**	**0.13**	**0.13**	**0.10**	**0.11**
delta-BHC	not established			not established		**0.061**	**0.13**	<0.05	**0.3**	**0.18**	**0.49**	**0.22**	**0.15**	**0.53**
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.00005	<0.0022	<0.05	<0.00005	<0.0022	<0.0022	<0.00005	<0.0022	<0.0022
gamma-Chlordane			0.0008	0.00081	0.00081	<0.00005	<0.0050	<0.05	<0.00005	<0.005	<0.005	<0.00005	<0.0050	<0.005
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.0001	<0.0091	<0.1	<0.0001	<0.0091	<0.0091	<0.0001	<0.0091	<0.0091
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.0001	<0.0060	<0.1	<0.0001	<0.006	<0.006	<0.0001	<0.006	<0.006
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.0001	<0.0069	<0.1	<0.0001	<0.0069	<0.0069	<0.0001	<0.0069	<0.0069
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.0001	<0.0091	<0.1	**0.046 J**	<0.0091	**0.021 J**	**0.043 J**	<0.0091	**0.020 J**
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.00005	<0.0072	<0.05	<0.00005	<0.0072	<0.0072	<0.00005	<0.0072	<0.0072
Methoxychlor	0.03	0.03	100	not established		<0.0005	<0.043	<0.5	<0.0005	<0.043	<0.043	<0.0005	<0.043	<0.043
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.005	<0.16	<5	<0.005	<0.16	<0.16	<0.005	<0.16	<0.16
Total Metals (mg/L)														
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	<0.005	NA	NA	NA	NA	NA	NA
Copper	0.0158 *	0.0158 *	1.3	not established		NA	NA	**0.0021**	NA	NA	NA	NA	NA	NA
Lead	0.0052 *	0.0052 *		not established		NA	NA	<0.001	NA	NA	NA	NA	NA	NA
Zinc	0.208*	0.208*	7.4	26	not established	NA	NA	**0.219**	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)														
Arsenic	0.15	0.15	0.000018	0.00014	0.01	**0.00104 J**	**0.000923 J**	<0.005	**0.000338 J**	<0.000536	<0.00054	**0.000272 J**	<0.000536	<0.00054
Copper	0.0158 *	0.0158 *	1.3	not established		**0.000426 J**	**0.0136**	<0.002	**0.148**	**0.157**	**0.229**	**0.348**	**0.0714**	**0.296**
Lead	0.0052 *	0.0052 *		not established		<0.001	<0.000099	<0.001	<0.001	**0.00281**	<0.0001	<0.001	<0.000099	<0.0001
Zinc	0.208*	0.208*	7.4	26	not established	<0.01	**0.847**	**0.221**	**5.86**	**4.24**	**5.65**	**7.05**	**3.75**	**6.13**
Total Trichlorobenzenes (ug/L)														
1,2,3-Trichlorobenzene	not established			not established		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
Nitrate and Sulfate (mg/L)														
Nitrate as N	not established		10 (nitrates)		not established	<0.25	**2.1**	**0.34**	**7.1**	**8.3**	**9.5**	**8.4**	**8.1**	**9.9**
Sulfate	not established			not established		**49**	**130**	**96**	**270**	**350**	**330**	**310**	**280**	**360**
Hardness as CaCo3 (mg/L)	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						7.6	6.99		7.07	6.57	6.74	6.82	6.58	6.75
Specific Conductance (mS/cm)						0.641	0.535		0.783	0.867	1.09	0.797	0.876	1.14
Turbidity (NTUs)						3.6	4.88		139	13.5	0	0.2	62.5	0
DO (mg/L)						0	8.82		2.99	7.14	7.62	2.14	8.02	7.09
ORP (mV)						-49	103		153	120	179	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: RB 7/10/2015
Checked by: RNQ 7/13/2015

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-1B	MW-1B	MW-22	MW-22	MW-22	MW-25	MW-26	MW-101
Date Sampled		5/27/2015	11/11/2014	5/29/2015	11/12/2014	9/13/2010	6/2/2015	5/28/2015	5/27/2015
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L					<1			
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0		<5.0		<1	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	ug/L					<9.5			
1,2,3-Trichloropropane	ug/L					<1			
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (SVOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<9.5	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L		<5.0		<5.0	<1			
1,2-Dibromo-3-chloropropane	ug/L		<5.0		<5.0				
1,2-Dichlorobenzene (VOC)	ug/L		<5.0		<5.0	<1			
1,2-Dichlorobenzene (SVOC)	ug/L		<5.0		<5.0	<9.5			
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
1,2-Diphenylhydrazine	ug/L					<9.5			
1,3-Dichlorobenzene (VOC)	ug/L		<5.0		<5.0	<1			
1,3-Dichlorobenzene (SVOC)	ug/L		<5.0		<5.0	<9.5			
1,3-Dichloropropane	ug/L					<1			
1,4-Dichlorobenzene (VOC)	ug/L		<5.0		<5.0	<1			
1,4-Dichlorobenzene (SVOC)	ug/L					<9.5			
1,4-Dioxane	ug/L	<150	<150	<150	<150	<9.5	<150	<150	<150
2,4,5-Trichlorophenol	ug/L					<9.5			
2,4,6-Trichlorophenol	ug/L					<9.5			
2,4-Dichlorophenol	ug/L					<9.5			
2,4-Dimethylphenol	ug/L					<9.5			
2,4-Dinitrophenol	ug/L					<48			
2,4-Dinitrotoluene	ug/L					<9.5			
2,6-Dinitrotoluene	ug/L					<9.5			
2-Butanone	ug/L	<50	<50	<50	<50	<10	<50	<50	<50
2-Chloronaphthalene	ug/L					<9.5			
2-Chlorophenol	ug/L					<9.5			
2-Hexanone	ug/L		<10		<10				
2-Methylphenol	ug/L					<9.5			
2-Nitrophenol	ug/L					<9.5			
3 & 4 Methylphenol	ug/L					<9.5			
3,3'-Dichlorobenzidine	ug/L					<57			
4,6-Dinitro-2-methylphenol	ug/L					<48			
4-Bromophenyl phenyl ether	ug/L					<9.5			
4-Chloro-3-methylphenol	ug/L					<9.5			
4-Chloroaniline	ug/L					<19			
4-Chlorophenyl phenyl ether	ug/L					<9.5			
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L					<48			
4-Nitrophenol	ug/L					<48			
Acenaphthene	ug/L					<9.5			
Acenaphthylene	ug/L					<9.5			
Acetone	ug/L	<50	<50	<50	<50	<25	<50	<50	<50
Anthracene	ug/L					<9.5			
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Benzo[a]anthracene	ug/L					<9.5			
Benzo[a]pyrene	ug/L					<9.5			
Benzo[b]fluoranthene	ug/L					<9.5			
Benzo[g,h,i]perylene	ug/L					<9.5			
Benzo[k]fluoranthene	ug/L					<9.5			
Benzoic acid	ug/L					<48			
Bis(2-chloroethoxy)methane	ug/L					<9.5			
Bis(2-chloroethyl)ether	ug/L					<9.5			
Bis(2-ethylhexyl) phthalate	ug/L					<9.5			
bis(chloroisopropyl) ether	ug/L					<9.5			

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-1B	MW-1B	MW-22	MW-22	MW-22	MW-25	MW-26	MW-101
Date Sampled		5/27/2015	11/11/2014	5/29/2015	11/12/2014	9/13/2010	6/2/2015	5/28/2015	5/27/2015
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Bromoform	ug/L		<5.0		<5.0				
Bromomethane	ug/L		<5.0		<5.0				
Butyl benzyl phthalate	ug/L					<9.5			
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<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	<1	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<1	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<10	<10	<1	<10	<10	<10
Chrysene	ug/L					<9.5			
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	**10**	**9.2**	**2.7**	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene			<5.0		<5.0				
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Dibenz(a,h)anthracene	ug/L					<9.5			
Dibromochloromethane	ug/L		<5.0		<5.0	<1			
Dibromomethane	ug/L					<1			
Dichlorobromomethane	ug/L		<5.0		<5.0				
Dichlorodifluoromethane	ug/L		<10		<10	<1			
Diethyl phthalate	ug/L					<9.5			
Dimethyl phthalate	ug/L					<9.5			
Di-n-octyl phthalate	ug/L					<9.5			
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Fluoranthene	ug/L					<9.5			
Fluorene	ug/L					<9.5			
Freon-113	ug/L		<10		<10				
Hexachloro-1,3-butadiene (VOC)	ug/L					<1			
Hexachloro-1,3-butadiene (SVOC)	ug/L					<9.5			
Hexachlorobenzene	ug/L					<9.5			
Hexachlorocyclopentadiene	ug/L					<9.5			
Hexachloroethane	ug/L					<9.5			
Indeno[1,2,3-cd]pyrene	ug/L					<9.5			
Isobutyl Alcohol	ug/L	<200		<200			<200		<200
Isophorone	ug/L					<9.5			
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Methyl acetate	ug/L		<5.0		<5.0				
Methyl tert-butyl ether	ug/L		<5.0		<5.0				
Methylcyclohexane	ug/L		<5.0		<5.0				
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0		<5.0		<5	<5.0	<5.0	<5.0
Naphthalene (SVOC)	ug/L					<9.5			
Nitrobenzene	ug/L					<9.5			
Pentachlorophenol	ug/L					<48			
Phenanthrene	ug/L					<9.5			
Phenol	ug/L					<9.5			
Pyrene	ug/L					<9.5			
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10		<10		<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L		<5.0		<5.0				
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0		<5.0		<1	<5.0	<5.0	<5.0
m&p-Xylenes	ug/L		<5.0		<5.0				
o-Xylenes	ug/L		<5.0		<5.0				
Total VOCs	ug/L	BDL	BDL	10	9.2	2.7	BDL	BDL	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-101	MW-102	MW-104A	MW-104A	MW-104A	MW-104D	MW-104D	MW-104D
Date Sampled		11/11/2014	5/27/2015	6/1/2015	11/12/2014	9/15/2010	6/3/2015	11/13/2014	9/15/2010
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L					<1			<200
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**28**	<250	<200
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,1-Dichloropropene	ug/L		<5.0	<5.0		<1	<5.0		<200
1,2,3-Trichlorobenzene	ug/L					<9.4			<1000
1,2,3-Trichloropropane	ug/L					<1			<200
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,2,4-Trichlorobenzene (SVOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<9.4	<5.0	<250	<1000
1,2-Dibromoethane	ug/L	<5.0			<5.0	<1		<250	<200
1,2-Dibromo-3-chloropropane	ug/L	<5.0			<5.0			<250	
1,2-Dichlorobenzene (VOC)	ug/L	<5.0			<5.0	<1		<250	<200
1,2-Dichlorobenzene (SVOC)	ug/L	<5.0			<5.0	<9.4		<250	<1000
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
1,2-Diphenylhydrazine	ug/L					<9.4			<1000
1,3-Dichlorobenzene (VOC)	ug/L	<5.0			<5.0	<1		<250	<200
1,3-Dichlorobenzene (SVOC)	ug/L	<5.0			<5.0	<9.4		<250	<1000
1,3-Dichloropropane	ug/L					<1			<200
1,4-Dichlorobenzene (VOC)	ug/L	<5.0			<5.0	<1		<250	<200
1,4-Dichlorobenzene (SVOC)	ug/L					<9.4			<1000
1,4-Dioxane	ug/L	<150	<150	<150	<150	**73**	**20000**		**11000**
2,4,5-Trichlorophenol	ug/L					<9.4			<1000
2,4,6-Trichlorophenol	ug/L					<9.4			<1000
2,4-Dichlorophenol	ug/L					<9.4			<1000
2,4-Dimethylphenol	ug/L					<9.4			<1000
2,4-Dinitrophenol	ug/L					<47			<5000
2,4-Dinitrotoluene	ug/L					<9.4			<1000
2,6-Dinitrotoluene	ug/L					<9.4			<1000
2-Butanone	ug/L	<50	<50	<50	<50	<10	**210000**	**260000**	**380000**
2-Chloronaphthalene	ug/L					<9.4			<1000
2-Chlorophenol	ug/L					<9.4			<1000
2-Hexanone	ug/L	<10			<10			**1900**	
2-Methylphenol	ug/L					<9.4			<1000
2-Nitrophenol	ug/L					<9.4			<1000
3 & 4 Methylphenol	ug/L					<9.4			<1000
3,3'-Dichlorobenzidine	ug/L					<57			<6000
4,6-Dinitro-2-methylphenol	ug/L					<47			<5000
4-Bromophenyl phenyl ether	ug/L					<9.4			<1000
4-Chloro-3-methylphenol	ug/L					<9.4			<1000
4-Chloroaniline	ug/L					<19			<2000
4-Chlorophenyl phenyl ether	ug/L					<9.4			<1000
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	**100000**	**120000**	**140000**
4-Nitroaniline	ug/L					<47			<5000
4-Nitrophenol	ug/L					<47			<5000
Acenaphthene	ug/L					<9.4			<1000
Acenaphthylene	ug/L					<9.4			<1000
Acetone	ug/L	<50	<50	<50	<50	<25	**200000**	**290000**	**370000**
Anthracene	ug/L					<9.4			<1000
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**360**	**290**	**330**
Benzo[a]anthracene	ug/L					<9.4			<1000
Benzo[a]pyrene	ug/L					<9.4			<1000
Benzo[b]fluoranthene	ug/L					<9.4			<1000
Benzo[g,h,i]perylene	ug/L					<9.4			<1000
Benzo[k]fluoranthene	ug/L					<9.4			<1000
Benzoic acid	ug/L					<47			<5000
Bis(2-chloroethoxy)methane	ug/L					<9.4			<1000
Bis(2-chloroethyl)ether	ug/L					<9.4			<1000
Bis(2-ethylhexyl) phthalate	ug/L					<9.4			<1000
bis(chloroisopropyl) ether	ug/L					<9.4			<1000

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-101	MW-102	MW-104A	MW-104A	MW-104A	MW-104D	MW-104D	MW-104D
Date Sampled		11/11/2014	5/27/2015	6/1/2015	11/12/2014	9/15/2010	6/3/2015	11/13/2014	9/15/2010
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Bromoform	ug/L	<5.0			<5.0			<250	
Bromomethane	ug/L	<5.0			<5.0			<250	
Butyl benzyl phthalate	ug/L					<9.4			<1000
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0		<5.0	<250	
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**20**	<250	<200
Chloroethane	ug/L	<10	<10	<10	<10	<1	**100**	<500	**390**
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Chloromethane	ug/L	<10	<10	<10	<10	<1	<10	<500	<200
Chrysene	ug/L					<9.4			<1000
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
cis-1,3-Dichloropropene		<5.0			<5.0			<250	
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Dibenz(a,h)anthracene	ug/L					<9.4			<1000
Dibromochloromethane	ug/L	<5.0			<5.0	<1		<250	<200
Dibromomethane	ug/L					<1			<200
Dichlorobromomethane	ug/L	<5.0			<5.0			<250	
Dichlorodifluoromethane	ug/L	<10			<10	<1		<500	<200
Diethyl phthalate	ug/L					<9.4			<1000
Dimethyl phthalate	ug/L					<9.4			<1000
Di-n-octyl phthalate	ug/L					<9.4			<1000
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**4200**	**4300**	**3900**
Fluoranthene	ug/L					<9.4			<1000
Fluorene	ug/L					<9.4			<1000
Freon-113	ug/L	<10			<10			<500	
Hexachloro-1,3-butadiene (VOC)	ug/L					<1			<200
Hexachloro-1,3-butadiene (SVOC)	ug/L					<9.4			<1000
Hexachlorobenzene	ug/L					<9.4			<1000
Hexachlorocyclopentadiene	ug/L					<9.4			<1000
Hexachloroethane	ug/L					<9.4			<1000
Indeno[1,2,3-cd]pyrene	ug/L					<9.4			<1000
Isobutyl Alcohol	ug/L		<200	<200			<200		
Isophorone	ug/L					<9.4			<1000
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**67**	<250	<200
Methyl acetate	ug/L	<5.0			<5.0			<250	
Methyl tert-butyl ether	ug/L	<5.0			<5.0			<250	
Methylcyclohexane	ug/L	<5.0			<5.0			<250	
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5	**52**	<250	<1000
Naphthalene (VOC)	ug/L		<5.0	<5.0		<5	**120**		<1000
Naphthalene (SVOC)	ug/L					<9.4			<1000
Nitrobenzene	ug/L					<9.4			<1000
Pentachlorophenol	ug/L					<47			<5000
Phenanthrene	ug/L					<9.4			<1000
Phenol	ug/L					<9.4			<1000
Pyrene	ug/L					<9.4			<1000
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Tetrahydrofuran	ug/L		<10	<10		<10	**49000**		**69000**
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**71000**	**67000**	**62000**
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	**40**	<250	<200
trans-1,3-Dichloropropene	ug/L	<5.0			<5.0			<250	
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<250	<200
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<1	<2.0	<100	<200
Xylenes, Total	ug/L		<5.0	<5.0		<2	**21000**		**18000**
m&p-Xylenes	ug/L	<5.0			<5.0			**15000**	
o-Xylenes	ug/L	<5.0			<5.0			**4700**	
Total VOCs	ug/L	BDL	BDL	BDL	BDL	73	675,987	763,190	1,054,620

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-106D	MW-107D	MW-108	MW-109	MW-110	MW-110	MW-111	MW-112
Date Sampled		6/2/2015	6/1/2015	5/28/2015	6/3/2015	5/29/2015	11/12/2014	6/3/2015	5/28/2015
Lithology Screened		Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	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	<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
1,1-Dichloroethane	ug/L	<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
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0
1,2,3-Trichlorobenzene	ug/L								
1,2,3-Trichloropropane	ug/L								
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 (SVOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L						<5.0		
1,2-Dibromo-3-chloropropane	ug/L						<5.0		
1,2-Dichlorobenzene (VOC)	ug/L						<5.0		
1,2-Dichlorobenzene (SVOC)	ug/L						<5.0		
1,2-Dichloroethane	ug/L	<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
1,2-Diphenylhydrazine	ug/L								
1,3-Dichlorobenzene (VOC)	ug/L						<5.0		
1,3-Dichlorobenzene (SVOC)	ug/L						<5.0		
1,3-Dichloropropane	ug/L								
1,4-Dichlorobenzene (VOC)	ug/L						<5.0		
1,4-Dichlorobenzene (SVOC)	ug/L								
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L						<10		
2-Methylphenol	ug/L								
2-Nitrophenol	ug/L								
3 & 4 Methylphenol	ug/L								
3,3'-Dichlorobenzidine	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
Anthracene	ug/L								
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzo[a]anthracene	ug/L								
Benzo[a]pyrene	ug/L								
Benzo[b]fluoranthene	ug/L								
Benzo[g,h,i]perylene	ug/L								
Benzo[k]fluoranthene	ug/L								
Benzoic acid	ug/L								
Bis(2-chloroethoxy)methane	ug/L								
Bis(2-chloroethyl)ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
bis(chloroisopropyl) ether	ug/L								

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-106D	MW-107D	MW-108	MW-109	MW-110	MW-110	MW-111	MW-112
Date Sampled		6/2/2015	6/1/2015	5/28/2015	6/3/2015	5/29/2015	11/12/2014	6/3/2015	5/28/2015
Lithology Screened		Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil
Bromoform	ug/L						<5.0		
Bromomethane	ug/L						<5.0		
Butyl benzyl phthalate	ug/L								
Carbon tetrachloride	ug/L	<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
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**97**	<5.0
Chloroethane	ug/L	<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
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene							<5.0		
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenz(a,h)anthracene	ug/L								
Dibromochloromethane	ug/L						<5.0		
Dibromomethane	ug/L								
Dichlorobromomethane	ug/L						<5.0		
Dichlorodifluoromethane	ug/L						<10		
Diethyl phthalate	ug/L								
Dimethyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Fluoranthene	ug/L								
Fluorene	ug/L								
Freon-113	ug/L						<10		
Hexachloro-1,3-butadiene (VOC)	ug/L								
Hexachloro-1,3-butadiene (SVOC)	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Indeno[1,2,3-cd]pyrene	ug/L								
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200		<200	<200
Isophorone	ug/L								
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl acetate	ug/L						<5.0		
Methyl tert-butyl ether	ug/L						<5.0		
Methylcyclohexane	ug/L						<5.0		
Methylene Chloride	ug/L	<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
Naphthalene (SVOC)	ug/L								
Nitrobenzene	ug/L								
Pentachlorophenol	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Pyrene	ug/L								
Styrene	ug/L	<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
Tetrahydrofuran	ug/L	<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
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L						<5.0		
Trichloroethene	ug/L	<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
Vinyl chloride	ug/L	<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
m&p-Xylenes	ug/L						<5.0		
o-Xylenes	ug/L						<5.0		
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	97	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-113	MW-114	MW-115	MW-116	MW-119	MW-119	MW-120	MW-120
Date Sampled		6/2/2015	6/2/2015	6/1/2015	5/28/2015	6/5/2015	11/18/2014	6/4/2015	11/19/2014
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	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	<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
1,1-Dichloroethane	ug/L	<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
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	
1,2,3-Trichlorobenzene	ug/L								
1,2,3-Trichloropropane	ug/L								
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 (SVOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L						<5.0		<5.0
1,2-Dibromo-3-chloropropane	ug/L						<5.0		<5.0
1,2-Dichlorobenzene (VOC)	ug/L						<5.0		<5.0
1,2-Dichlorobenzene (SVOC)	ug/L						<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
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Diphenylhydrazine	ug/L								
1,3-Dichlorobenzene (VOC)	ug/L						<5.0		<5.0
1,3-Dichlorobenzene (SVOC)	ug/L						<5.0		<5.0
1,3-Dichloropropane	ug/L								
1,4-Dichlorobenzene (VOC)	ug/L						<5.0		<5.0
1,4-Dichlorobenzene (SVOC)	ug/L								
1,4-Dioxane	ug/L	<150	<150	<150	<150	**370**		**220**	**420**
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L						<10		<10
2-Methylphenol	ug/L								
2-Nitrophenol	ug/L								
3 & 4 Methylphenol	ug/L								
3,3'-Dichlorobenzidine	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
Anthracene	ug/L								
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzo[a]anthracene	ug/L								
Benzo[a]pyrene	ug/L								
Benzo[b]fluoranthene	ug/L								
Benzo[g,h,i]perylene	ug/L								
Benzo[k]fluoranthene	ug/L								
Benzoic acid	ug/L								
Bis(2-chloroethoxy)methane	ug/L								
Bis(2-chloroethyl)ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
bis(chloroisopropyl) ether	ug/L								

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-113	MW-114	MW-115	MW-116	MW-119	MW-119	MW-120	MW-120
Date Sampled		6/2/2015	6/2/2015	6/1/2015	5/28/2015	6/5/2015	11/18/2014	6/4/2015	11/19/2014
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Bromoform	ug/L						<5.0		<5.0
Bromomethane	ug/L						<5.0		<5.0
Butyl benzyl phthalate	ug/L								
Carbon tetrachloride	ug/L	<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
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.87 J**
Chloroethane	ug/L	<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
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	**56**	<5.0	<5.0	<5.0	<5.0	<5.0	**7.1**	**7.6**
cis-1,3-Dichloropropene							<5.0		<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenz(a,h)anthracene	ug/L								
Dibromochloromethane	ug/L						<5.0		<5.0
Dibromomethane	ug/L								
Dichlorobromomethane	ug/L						<5.0		<5.0
Dichlorodifluoromethane	ug/L						<10		<10
Diethyl phthalate	ug/L								
Dimethyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Fluoranthene	ug/L								
Fluorene	ug/L								
Freon-113	ug/L						<10		<10
Hexachloro-1,3-butadiene (VOC)	ug/L								
Hexachloro-1,3-butadiene (SVOC)	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Indeno[1,2,3-cd]pyrene	ug/L								
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200		<200	
Isophorone	ug/L								
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl acetate	ug/L						<5.0		<5.0
Methyl tert-butyl ether	ug/L						<5.0		<5.0
Methylcyclohexane	ug/L						<5.0		<5.0
Methylene Chloride	ug/L	<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	
Naphthalene (SVOC)	ug/L								
Nitrobenzene	ug/L								
Pentachlorophenol	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Pyrene	ug/L								
Styrene	ug/L	<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
Tetrahydrofuran	ug/L	<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
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L						<5.0		<5.0
Trichloroethene	ug/L	**44**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**3.4 J**
Trichlorofluoromethane	ug/L	<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
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0	
m&p-Xylenes	ug/L						<5.0		<5.0
o-Xylenes	ug/L						<5.0		<5.0
Total VOCs	ug/L	100	BDL	BDL	BDL	370	BDL	227.1	427.6

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-121	TW-1	TW-2	TW-3	TW-3	TW-4	TW-5	TW-5
Date Sampled		**6/5/2015**	**5/28/2015**	**5/28/2015**	**6/5/2015**	**11/13/2014**	**5/29/2015**	**6/1/2015**	**11/13/2014**
Lithology Screened		Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	ug/L	<5.0	**9.9**	<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
1,1,2-Trichloroethane	ug/L	<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
1,1-Dichloroethene	ug/L	<5.0	**6.7**	<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	
1,2,3-Trichlorobenzene	ug/L								
1,2,3-Trichloropropane	ug/L								
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 (SVOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L					<5.0			<5.0
1,2-Dibromo-3-chloropropane	ug/L					<5.0			<5.0
1,2-Dichlorobenzene (VOC)	ug/L					<5.0			<5.0
1,2-Dichlorobenzene (SVOC)	ug/L					<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
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Diphenylhydrazine	ug/L								
1,3-Dichlorobenzene (VOC)	ug/L					<5.0			<5.0
1,3-Dichlorobenzene (SVOC)	ug/L					<5.0			<5.0
1,3-Dichloropropane	ug/L								
1,4-Dichlorobenzene (VOC)	ug/L					<5.0			<5.0
1,4-Dichlorobenzene (SVOC)	ug/L								
1,4-Dioxane	ug/L	<150	<150	<150	<150		<150	<150	
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L					<10			<10
2-Methylphenol	ug/L								
2-Nitrophenol	ug/L								
3 & 4 Methylphenol	ug/L								
3,3'-Dichlorobenzidine	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
Anthracene	ug/L								
Benzene	ug/L	<5.0	<5.0	<5.0	**11**	**8.6**	<5.0	<5.0	<5.0
Benzo[a]anthracene	ug/L								
Benzo[a]pyrene	ug/L								
Benzo[b]fluoranthene	ug/L								
Benzo[g,h,i]perylene	ug/L								
Benzo[k]fluoranthene	ug/L								
Benzoic acid	ug/L								
Bis(2-chloroethoxy)methane	ug/L								
Bis(2-chloroethyl)ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
bis(chloroisopropyl) ether	ug/L								

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		MW-121	TW-1	TW-2	TW-3	TW-3	TW-4	TW-5	TW-5
Date Sampled		6/5/2015	5/28/2015	5/28/2015	6/5/2015	11/13/2014	5/29/2015	6/1/2015	11/13/2014
Lithology Screened		Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Bromoform	ug/L					<5.0			<5.0
Bromomethane	ug/L					<5.0			<5.0
Butyl benzyl phthalate	ug/L								
Carbon tetrachloride	ug/L	<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
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	**13**	**14**	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	**14**	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<5.0	**580**	**53**	**140**	**200**	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene						<5.0			<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenz(a,h)anthracene	ug/L								
Dibromochloromethane	ug/L					<5.0			<5.0
Dibromomethane	ug/L								
Dichlorobromomethane	ug/L					<5.0			<5.0
Dichlorodifluoromethane	ug/L					<10			<10
Diethyl phthalate	ug/L								
Dimethyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Fluoranthene	ug/L								
Fluorene	ug/L								
Freon-113	ug/L					<10			<10
Hexachloro-1,3-butadiene (VOC)	ug/L								
Hexachloro-1,3-butadiene (SVOC)	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Indeno[1,2,3-cd]pyrene	ug/L								
Isobutyl Alcohol	ug/L	<200	<200	<200	<200		<200	<200	
Isophorone	ug/L								
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl acetate	ug/L					<5.0			<5.0
Methyl tert-butyl ether	ug/L					<5.0			<5.0
Methylcyclohexane	ug/L					<5.0			<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	**48**	<5.0	<5.0		<5.0	<5.0	
Naphthalene (SVOC)	ug/L								
Nitrobenzene	ug/L								
Pentachlorophenol	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Pyrene	ug/L								
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	**11**	**8.9**	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<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
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L					<5.0			<5.0
Trichloroethene	ug/L	<5.0	**1900**	**51**	<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
Vinyl chloride	ug/L	<2.0	**5**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	**5.1**	<5.0	<5.0		<5.0	<5.0	
m&p-Xylenes	ug/L					<5.0			<5.0
o-Xylenes	ug/L					<5.0			<5.0
Total VOCs	ug/L	BDL	2565.7	126.9	164.0	222.6	BDL	BDL	BDL

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		TW-6	TW-7	TW-7	TW-8	TW-9	TW-10	TW-11	TW-12
Date Sampled		6/1/2015	6/5/2015	11/18/2014	6/2/2015	6/8/2015	6/8/2015	5/27/2015	5/27/2015
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	**Units**								
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	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	<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
1,1-Dichloroethane	ug/L	<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
1,1-Dichloropropene	ug/L	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	ug/L								
1,2,3-Trichloropropane	ug/L								
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	**69**	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (SVOC)	ug/L	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L			<5.0					
1,2-Dibromo-3-chloropropane	ug/L			<5.0					
1,2-Dichlorobenzene (VOC)	ug/L			<5.0					
1,2-Dichlorobenzene (SVOC)	ug/L			<5.0					
1,2-Dichloroethane	ug/L	<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
1,2-Diphenylhydrazine	ug/L								
1,3-Dichlorobenzene (VOC)	ug/L			<5.0					
1,3-Dichlorobenzene (SVOC)	ug/L			<5.0					
1,3-Dichloropropane	ug/L								
1,4-Dichlorobenzene (VOC)	ug/L			<5.0					
1,4-Dichlorobenzene (SVOC)	ug/L								
1,4-Dioxane	ug/L	<150	<150		<150	<150	<150	<150	<150
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L			<10					
2-Methylphenol	ug/L								
2-Nitrophenol	ug/L								
3 & 4 Methylphenol	ug/L								
3,3'-Dichlorobenzidine	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
Anthracene	ug/L								
Benzene	ug/L	<5.0	<5.0	<5.0	**110**	<5.0	<5.0	<5.0	<5.0
Benzo[a]anthracene	ug/L								
Benzo[a]pyrene	ug/L								
Benzo[b]fluoranthene	ug/L								
Benzo[g,h,i]perylene	ug/L								
Benzo[k]fluoranthene	ug/L								
Benzoic acid	ug/L								
Bis(2-chloroethoxy)methane	ug/L								
Bis(2-chloroethyl)ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
bis(chloroisopropyl) ether	ug/L								

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		TW-6	TW-7	TW-7	TW-8	TW-9	TW-10	TW-11	TW-12
Date Sampled		6/1/2015	6/5/2015	11/18/2014	6/2/2015	6/8/2015	6/8/2015	5/27/2015	5/27/2015
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Bromoform	ug/L			<5.0					
Bromomethane	ug/L			<5.0					
Butyl benzyl phthalate	ug/L								
Carbon tetrachloride	ug/L	<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
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	**550**	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<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
Chloromethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,3-Dichloropropene				<5.0					
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenz(a,h)anthracene	ug/L								
Dibromochloromethane	ug/L			<5.0					
Dibromomethane	ug/L								
Dichlorobromomethane	ug/L			<5.0					
Dichlorodifluoromethane	ug/L			<10					
Diethyl phthalate	ug/L								
Dimethyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Fluoranthene	ug/L								
Fluorene	ug/L								
Freon-113	ug/L			<10					
Hexachloro-1,3-butadiene (VOC)	ug/L								
Hexachloro-1,3-butadiene (SVOC)	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Indeno[1,2,3-cd]pyrene	ug/L								
Isobutyl Alcohol	ug/L	<200	<200		<200	<200	<200	<200	<200
Isophorone	ug/L								
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl acetate	ug/L			<5.0					
Methyl tert-butyl ether	ug/L			<5.0					
Methylcyclohexane	ug/L			<5.0					
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	**5.4**	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (SVOC)	ug/L								
Nitrobenzene	ug/L								
Pentachlorophenol	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Pyrene	ug/L								
Styrene	ug/L	<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
Tetrahydrofuran	ug/L	<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
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L			<5.0					
Trichloroethene	ug/L	<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
Vinyl chloride	ug/L	<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
m&p-Xylenes	ug/L			<5.0					
o-Xylenes	ug/L			<5.0					
Total VOCs	ug/L	5.4	BDL	BDL	729	BDL	BDL	BDL	BDL

Notes:
ug/L = micrograms per liter
Bolded concentrations are postive detection of constituents
VOCs = volatile organic compounds analyzed by USEPA method 8260B
SVOCs = Semi-volatile organic compounds analyzed by USEPA method 8270C
(1) M & J Solvents groundwater data is from the Corrective Action Plan Addendum dated October 30, 2006.

Prepared by: RJB 7/14/2015
Checked by: RNQ 7/14/2015

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		Highest Concentration Detected in M &J Solvent Wells (1)		
Date Sampled				
Lithology Screened			M & J Solvent Wells Are Screened in Residual Soil and Bedrock	
Constituent	**Units**	**Constituent**	**Units**	
1,1,1,2-Tetrachloroethane	ug/L	1,1,1,2-Tetrachloroethane	ug/L	<5000
1,1,1-Trichloroethane	ug/L	1,1,1-Trichloroethane	ug/L	**87,000**
1,1,2,2-Tetrachloroethane	ug/L	1,1,2,2-Tetrachloroethane	ug/L	<5000
1,1,2-Trichloroethane	ug/L	1,1,2-Trichloroethane	ug/L	**8,600**
1,1-Dichloroethane	ug/L	1,1-Dichloroethane	ug/L	**18,000**
1,1-Dichloroethene	ug/L	1,1-Dichloroethene	ug/L	**21,000**
1,1-Dichloropropene	ug/L	1,1-Dichloropropene	ug/L	<5000
1,2,3-Trichlorobenzene	ug/L	1,2,3-Trichlorobenzene	ug/L	NA
1,2,3-Trichloropropane	ug/L	1,2,3-Trichloropropane	ug/L	<5000
1,2,4-Trichlorobenzene (VOC)	ug/L	1,2,4-Trichlorobenzene	ug/L	<5000
1,2,4-Trichlorobenzene (SVOC)	ug/L	1,2,4-Trichlorobenzene	ug/L	<10
1,2-Dibromoethane	ug/L	1,2-Dibromoethane	ug/L	<5000
1,2-Dibromo-3-chloropropane	ug/L			
1,2-Dichlorobenzene (VOC)	ug/L	1,2-Dichlorobenzene	ug/L	<5000
1,2-Dichlorobenzene (SVOC)	ug/L	1,2-Dichlorobenzene	ug/L	<10
1,2-Dichloroethane	ug/L	1,2-Dichloroethane	ug/L	**170**
1,2-Dichloropropane	ug/L	1,2-Dichloropropane	ug/L	<5000
1,2-Diphenylhydrazine	ug/L	1,2-Diphenylhydrazine	ug/L	<20
1,3-Dichlorobenzene (VOC)	ug/L	1,3-Dichlorobenzene	ug/L	<5000
1,3-Dichlorobenzene (SVOC)	ug/L	1,3-Dichlorobenzene	ug/L	<10
1,3-Dichloropropane	ug/L	1,3-Dichloropropane	ug/L	<5000
1,4-Dichlorobenzene (VOC)	ug/L	1,4-Dichlorobenzene	ug/L	<5000
1,4-Dichlorobenzene (SVOC)	ug/L	1,4-Dichlorobenzene	ug/L	<10
1,4-Dioxane	ug/L	**1,4-Dioxane**	ug/L	**730,000**
2,4,5-Trichlorophenol	ug/L	2,4,5-Trichlorophenol	ug/L	**5.3**
2,4,6-Trichlorophenol	ug/L	2,4,6-Trichlorophenol	ug/L	**3.3**
2,4-Dichlorophenol	ug/L	2,4-Dichlorophenol	ug/L	**4.8**
2,4-Dimethylphenol	ug/L	2,4-Dimethylphenol	ug/L	**11**
2,4-Dinitrophenol	ug/L	2,4-Dinitrophenol	ug/L	**14**
2,4-Dinitrotoluene	ug/L	2,4-Dinitrotoluene	ug/L	<10
2,6-Dinitrotoluene	ug/L	2,6-Dinitrotoluene	ug/L	<10
2-Butanone	ug/L	**2-Butanone**	ug/L	**380,000**
2-Chloronaphthalene	ug/L	2-Chloronaphthalene	ug/L	<10
2-Chlorophenol	ug/L	2-Chlorophenol	ug/L	**7.4**
2-Hexanone	ug/L			
2-Methylphenol	ug/L	2-Methylphenol	ug/L	**25**
2-Nitrophenol	ug/L	2-Nitrophenol	ug/L	**3.2**
3 & 4 Methylphenol	ug/L	3 & 4 Methylphenol	ug/L	**130**
3,3'-Dichlorobenzidine	ug/L	3,3'-Dichlorobenzidine	ug/L	<20
4,6-Dinitro-2-methylphenol	ug/L	4,6-Dinitro-2-methylphenol	ug/L	**3.6**
4-Bromophenyl phenyl ether	ug/L	4-Bromophenyl phenyl ether	ug/L	<10
4-Chloro-3-methylphenol	ug/L	4-Chloro-3-methylphenol	ug/L	**5.8**
4-Chloroaniline	ug/L	4-Chloroaniline	ug/L	<20
4-Chlorophenyl phenyl ether	ug/L	4-Chlorophenyl phenyl ether	ug/L	<10
4-Methyl-2-pentanone	ug/L	**4-Methyl-2-pentanone**	ug/L	**120,000**
4-Nitroaniline	ug/L	4-Nitroaniline	ug/L	<50
4-Nitrophenol	ug/L	4-Nitrophenol	ug/L	**8.4**
Acenaphthene	ug/L	Acenaphthene	ug/L	**9.4**
Acenaphthylene	ug/L	Acenaphthylene	ug/L	<10
Acetone	ug/L	**Acetone**	ug/L	**1,200,000**
Anthracene	ug/L	Anthracene	ug/L	<10
Benzene	ug/L	**Benzene**	ug/L	**760**
Benzo[a]anthracene	ug/L	Benzo[a]anthracene	ug/L	<10
Benzo[a]pyrene	ug/L	Benzo[a]pyrene	ug/L	1.6
Benzo[b]fluoranthene	ug/L	Benzo[b]fluoranthene	ug/L	<10
Benzo[g,h,i]perylene	ug/L	Benzo[g,h,i]perylene	ug/L	<10
Benzo[k]fluoranthene	ug/L	Benzo[k]fluoranthene	ug/L	<10
Benzoic acid	ug/L	Benzoic acid	ug/L	**180**
Bis(2-chloroethoxy)methane	ug/L	Bis(2-chloroethoxy)methane	ug/L	<10
Bis(2-chloroethyl)ether	ug/L	Bis(2-chloroethyl)ether	ug/L	<10
Bis(2-ethylhexyl) phthalate	ug/L	Bis(2-ethylhexyl) phthalate	ug/L	<10
bis(chloroisopropyl) ether	ug/L	bis(chloroisopropyl) ether	ug/L	<10

TABLE 5: SUMMARY OF M & J SOLVENTS SITE-SPECIFIC VOCs and SVOCs ANALYZED IN BFEL MONITORING WELLS

Well		Highest Concentration Detected in M &J Solvent Wells (1)		
Date Sampled				
Lithology Screened			M & J Solvent Wells Are Screened in Residual Soil and Bedrock	
Bromoform	ug/L			
Bromomethane	ug/L			
Butyl benzyl phthalate	ug/L	Butyl benzyl phthalate	ug/L	<10
Carbon tetrachloride	ug/L	Carbon tetrachloride	ug/L	**120,000**
Carbon Disulfide	ug/L			
Chlorobenzene	ug/L	Chlorobenzene	ug/L	<5000
Chloroethane	ug/L	**Chloroethane**	ug/L	**6,300**
Chloroform	ug/L	Chloroform	ug/L	**1,600**
Chloromethane	ug/L	Chloromethane	ug/L	**990**
Chrysene	ug/L	Chrysene	ug/L	**1.3**
cis-1,2-Dichloroethene	ug/L	**cis-1,2-Dichloroethene**	ug/L	**32,000**
cis-1,3-Dichloropropene				
Cyclohexane	ug/L	Cyclohexane	ug/L	**19,000**
Dibenz(a,h)anthracene	ug/L	Dibenz(a,h)anthracene	ug/L	<10
Dibromochloromethane	ug/L	Dibromochloromethane	ug/L	<5000
Dibromomethane	ug/L	Dibromomethane	ug/L	<5000
Dichlorobromomethane	ug/L			
Dichlorodifluoromethane	ug/L	Dichlorodifluoromethane	ug/L	<5000
Diethyl phthalate	ug/L	Diethyl phthalate	ug/L	**9.4**
Dimethyl phthalate	ug/L	Dimethyl phthalate	ug/L	**36**
Di-n-octyl phthalate	ug/L	Di-n-octyl phthalate	ug/L	**1.9**
Ethylbenzene	ug/L	**Ethylbenzene**	ug/L	**4,200**
Fluoranthene	ug/L	Fluoranthene	ug/L	**2.5**
Fluorene	ug/L	Fluorene	ug/L	**8.5**
Freon-113	ug/L			
Hexachloro-1,3-butadiene (VOC)	ug/L	Hexachloro-1,3-butadiene	ug/L	**3,100**
Hexachloro-1,3-butadiene (SVOC)	ug/L	Hexachloro-1,3-butadiene	ug/L	<10
Hexachlorobenzene	ug/L	Hexachlorobenzene	ug/L	<10
Hexachlorocyclopentadiene	ug/L	Hexachlorocyclopentadiene	ug/L	<10
Hexachloroethane	ug/L	Hexachloroethane	ug/L	<10
Indeno[1,2,3-cd]pyrene	ug/L	Indeno[1,2,3-cd]pyrene	ug/L	<10
Isobutyl Alcohol	ug/L			
Isophorone	ug/L	Isophorone	ug/L	**64**
Isopropylbenzene	ug/L			
Methyl acetate	ug/L			
Methyl tert-butyl ether	ug/L			
Methylcyclohexane	ug/L			
Methylene Chloride	ug/L	Methylene Chloride	ug/L	**88,000**
Naphthalene (VOC)	ug/L	Naphthalene	ug/L	**190**
Naphthalene (SVOC)	ug/L	Naphthalene	ug/L	**88**
Nitrobenzene	ug/L	Nitrobenzene	ug/L	<10
Pentachlorophenol	ug/L	Pentachlorophenol	ug/L	<10
Phenanthrene	ug/L	Phenanthrene	ug/L	**12**
Phenol	ug/L	Phenol	ug/L	**9.6**
Pyrene	ug/L	Pyrene	ug/L	<10
Styrene	ug/L	Styrene	ug/L	<5000
Tetrachloroethene	ug/L	Tetrachloroethene	ug/L	**1,400**
Tetrahydrofuran	ug/L	**Tetrahydrofuran**	ug/L	**86,000**
Toluene	ug/L	**Toluene**	ug/L	**96,000**
trans-1,2-Dichloroethene	ug/L	trans-1,2-Dichloroethene	ug/L	**74,000**
trans-1,3-Dichloropropene	ug/L			
Trichloroethene	ug/L	Trichloroethene	ug/L	**13,000**
Trichlorofluoromethane	ug/L	Trichlorofluoromethane	ug/L	**36**
Vinyl chloride	ug/L	Vinyl chloride	ug/L	**1,200**
Xylenes, Total	ug/L	**Xylenes, Total**	ug/L	**2,400**
m&p-Xylenes	ug/L			
o-Xylenes	ug/L			
Total VOCs	ug/L			

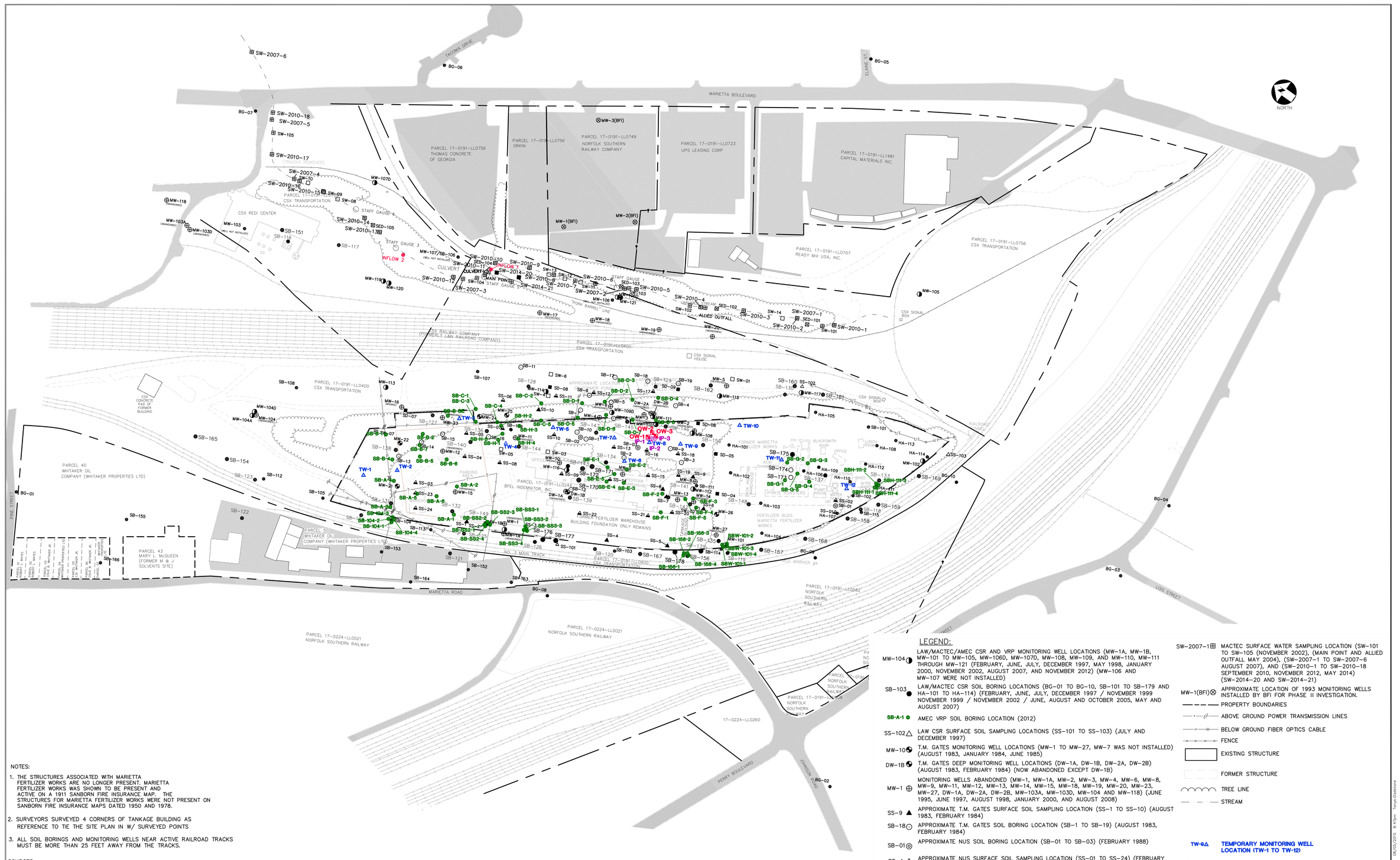
TABLE 6: SUMMARY OF HOURS INVOICED AND DESCRIPTION OF SERVICES FOR DOCUMENTATION OF PE DIRECT OVERSIGHT FOR VOLUNTARY REMEDIATION PROGRAM ACTIVITIES

	Hours Invoiced	Billing Period	Invoice #	Description of Services
Gregory J. Wrenn, P.E.	7	01/24/2015-02/20/2015	H081001906	
	40.3		3/10/2015	Finalized and submitted VRP Status Report No.6 and responses to EPD comments on February 7, 2015.
Gregory J. Wrenn, P.E.	3.0	02/21/2015-04/17/2015	H081002010	
Total Project Hours for Billing Period	3.5		4/23/2015	Contacted representatives of Whitaker Oil regarding access to their monitoring wells for additional pesticide delineation. Evaluation of potential to treat pesticides and VOCs by using carbon adsorbent material in reinfiltration gallery.
Gregory J. Wrenn, P.E.	4.5	04/18/2015-5/22/2015	H081002127	
Total Project Hours for Billing Period	43		6/4/2014	Coordinated first semi-annual 2015 groundwater and surface water sampling event and treatability testing. Notified CSX of upcoming sampling event on their property. Obtained high calcium limestone material from Vulcan Dalton quarry for treatability testing. Collected samples for treatability testing. Prepared draft access agreement addendum for sampling of Whitaker Oil property monitoring wells.
Gregory J. Wrenn, P.E.	8.0	5/23/2015-6/19/2015	H081002184	
Total Project Hours for Billing Period	300.4		7/1/2015	Conducted first 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. Collected treatability study samples and initiated treatability study for limestone and carbon adsorbent material.

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.	10.0	6/20/2015-7/24/2015	H081002251	Conducted the treatability study testing of limestone and carbon adsorbent material for treatment of groundwater and surface water. Prepared the report documenting the results of the treatability study. Evaulated field and laboratory data from May-June semi-annual water monitoring event and prepared VRP Status Report No. 7.
Total Project Hours for Billing Period	173.6		8/3/2015	
Total Hours for PE Gregory J. Wrenn	**32.5**			
Total Project Hours	**560.8**			

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.
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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.

SCALE IN FEET
0 100 200

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
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PAGE NO.

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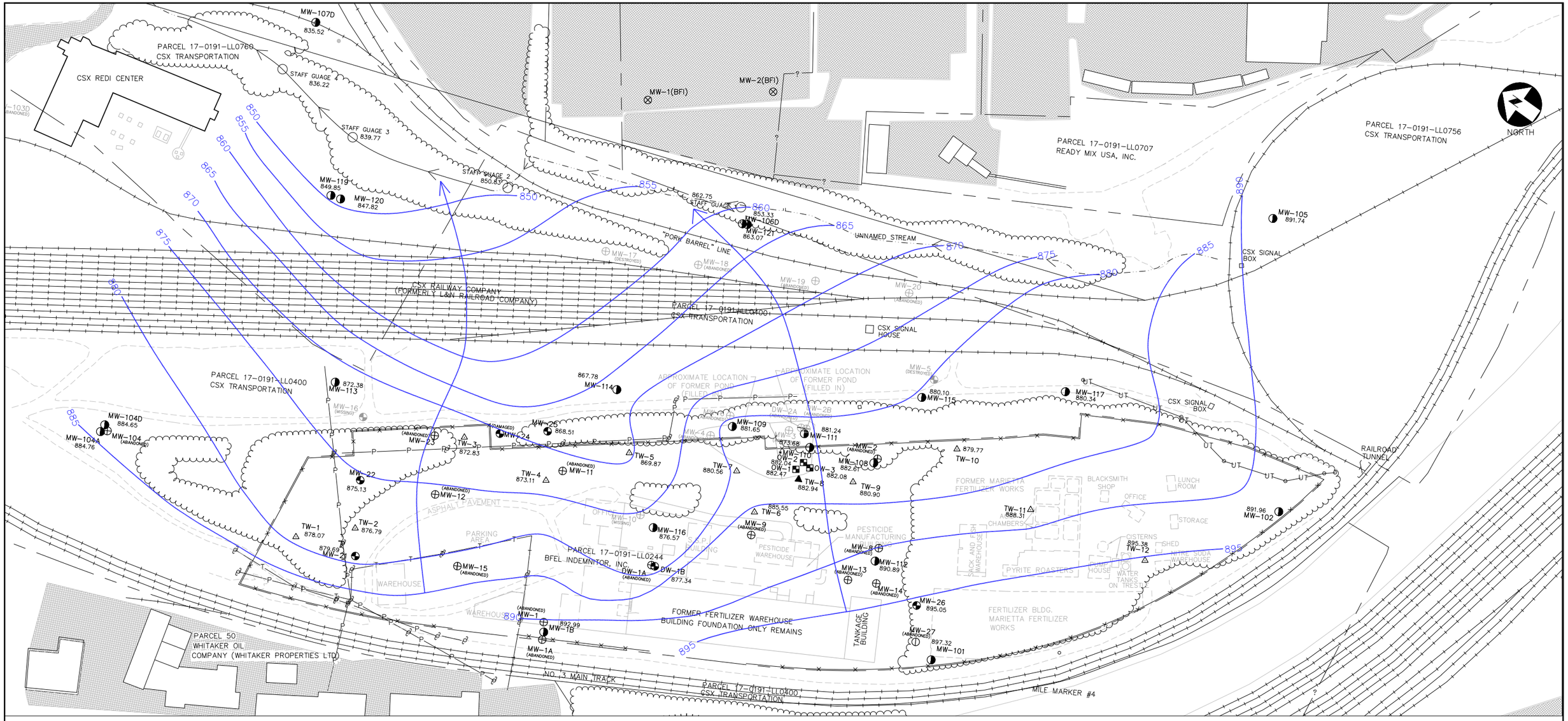

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SOURCES:

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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	M. ANDREWS
DRAWN	T. GLADSTONE
CHECKED	R. QUINN
IN CHARGE	D. ALCOTT
DATE	7/14/2015

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 MAY 2015

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

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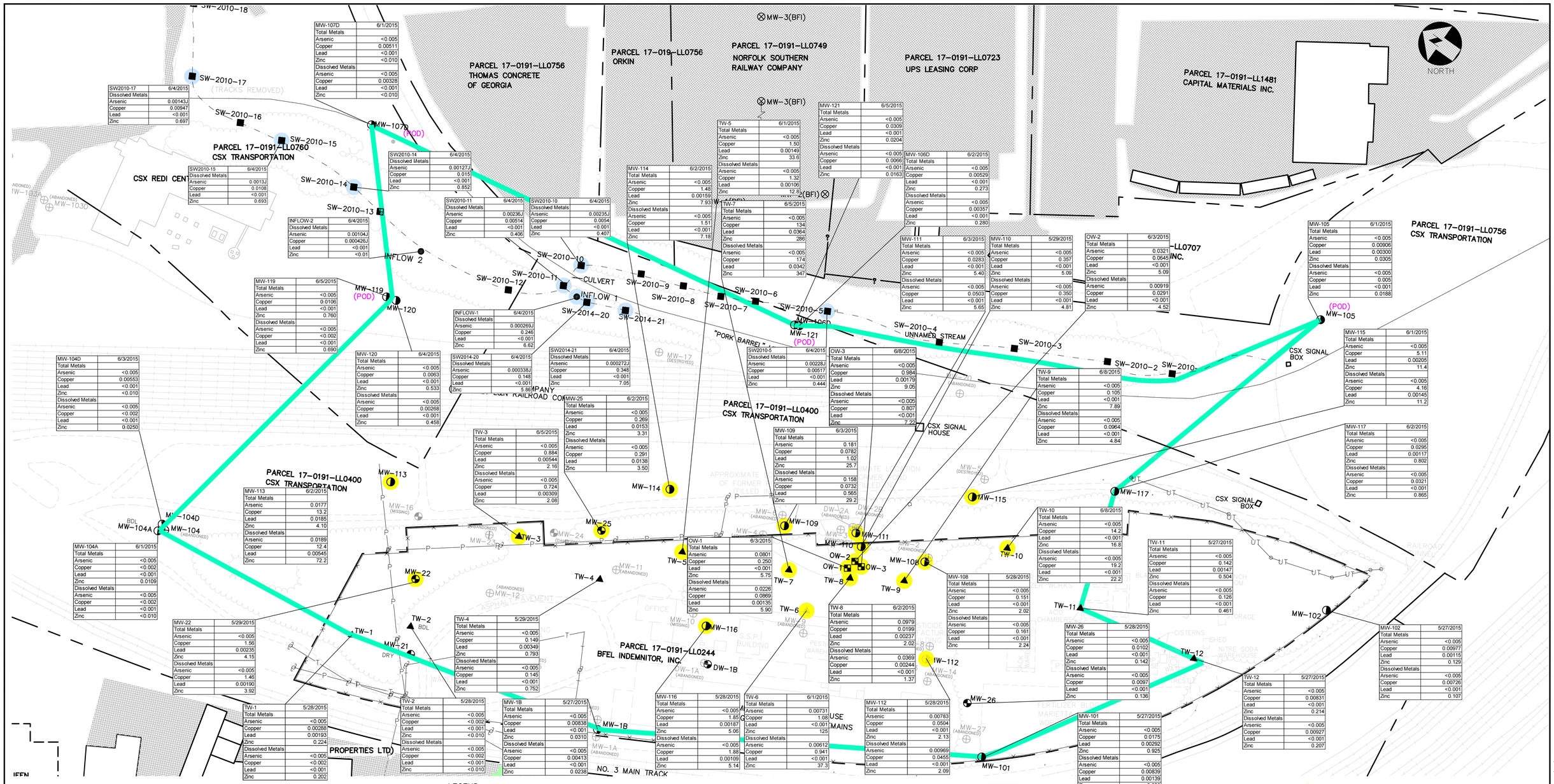

SW2010-17	6/4/2015
Dissolved Metals	
Arsenic	0.00143J
Copper	0.00947
Lead	<0.001
Zinc	0.697

MW-107D	6/1/2015
Total Metals	
Arsenic	<0.005
Copper	0.00511
Lead	<0.001
Zinc	<0.010
Dissolved Metals	
Arsenic	<0.005
Copper	0.00328
Lead	<0.001
Zinc	<0.010

SW2010-15	6/4/2015
Dissolved Metals	
Arsenic	0.0013J
Copper	0.0108
Lead	<0.001
Zinc	0.693

SW2010-14	6/4/2015
Dissolved Metals	
Arsenic	0.00127J
Copper	0.015
Lead	<0.001
Zinc	0.852

INFLOW-2	6/4/2015
Dissolved Metals	
Arsenic	0.00104J
Copper	0.00426J
Lead	<0.001
Zinc	<0.01

SW2010-11	6/4/2015
Dissolved Metals	
Arsenic	0.00236J
Copper	0.00514
Lead	<0.001
Zinc	0.406

SW2010-10	6/4/2015
Dissolved Metals	
Arsenic	0.00235J
Copper	0.0054
Lead	<0.001
Zinc	0.407

MW-114	6/2/2015
Total Metals	
Arsenic	<0.005
Copper	1.48
Lead	0.00159
Zinc	7.93
Dissolved Metals	
Arsenic	<0.005
Copper	1.51
Lead	<0.001
Zinc	7.18

TW-5	6/1/2015
Total Metals	
Arsenic	<0.005
Copper	1.50
Lead	0.00149
Zinc	33.6
Dissolved Metals	
Arsenic	<0.005
Copper	1.32
Lead	0.00106
Zinc	12.8

TW-7	6/5/2015
Total Metals	
Arsenic	<0.005
Copper	134
Lead	0.0364
Zinc	286
Dissolved Metals	
Arsenic	<0.005
Copper	174
Lead	0.0342
Zinc	347

MW-121	6/5/2015
Total Metals	
Arsenic	<0.005
Copper	0.0309
Lead	<0.001
Zinc	0.0204
Dissolved Metals	
Arsenic	<0.005
Copper	0.0066
Lead	<0.001
Zinc	0.0163

MW-106D	6/2/2015
Total Metals	
Arsenic	<0.005
Copper	0.00529
Lead	<0.001
Zinc	0.273
Dissolved Metals	
Arsenic	<0.005
Copper	0.00357
Lead	<0.001
Zinc	0.280

MW-111	6/3/2015
Total Metals	
Arsenic	<0.005
Copper	0.0263
Lead	<0.001
Zinc	5.40
Dissolved Metals	
Arsenic	<0.005
Copper	0.0503
Lead	<0.001
Zinc	5.65

MW-110	5/29/2015
Total Metals	
Arsenic	<0.005
Copper	0.357
Lead	<0.001
Zinc	5.09
Dissolved Metals	
Arsenic	<0.005
Copper	0.350
Lead	<0.001
Zinc	4.81

OW-2	6/3/2015
Total Metals	
Arsenic	0.0321
Copper	0.0645
Lead	<0.001
Zinc	5.09
Dissolved Metals	
Arsenic	0.00919
Copper	0.0291
Lead	<0.001
Zinc	4.52

MW-105	6/1/2015
Total Metals	
Arsenic	<0.005
Copper	0.00906
Lead	0.00300
Zinc	0.0305
Dissolved Metals	
Arsenic	<0.005
Copper	0.005
Lead	<0.001
Zinc	0.0188

MW-119	6/5/2015
Total Metals	
Arsenic	<0.005
Copper	0.0106
Lead	<0.001
Zinc	0.760
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	0.690

INFLOW-1	6/4/2015
Dissolved Metals	
Arsenic	0.000269J
Copper	0.246
Lead	<0.001
Zinc	6.62

SW2014-20	6/4/2015
Dissolved Metals	
Arsenic	0.000338J
Copper	0.148
Lead	<0.001
Zinc	5.86

SW2014-21	6/4/2015
Dissolved Metals	
Arsenic	0.000272J
Copper	0.348
Lead	<0.001
Zinc	7.05

SW2010-5	6/4/2015
Dissolved Metals	
Arsenic	0.00228J
Copper	0.00517
Lead	<0.001
Zinc	0.444

OW-3	6/8/2015
Total Metals	
Arsenic	<0.005
Copper	0.984
Lead	0.00179
Zinc	9.05
Dissolved Metals	
Arsenic	<0.005
Copper	0.807
Lead	<0.001
Zinc	7.22

TW-9	6/8/2015
Total Metals	
Arsenic	<0.005
Copper	0.105
Lead	<0.001
Zinc	7.89
Dissolved Metals	
Arsenic	<0.005
Copper	0.0964
Lead	<0.001
Zinc	4.84

MW-115	6/1/2015
Total Metals	
Arsenic	<0.005
Copper	5.11
Lead	0.00205
Zinc	11.4
Dissolved Metals	
Arsenic	<0.005
Copper	4.16
Lead	0.00145
Zinc	11.2

MW-104D	6/3/2015
Total Metals	
Arsenic	<0.005
Copper	0.00553
Lead	<0.001
Zinc	<0.010
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	0.0250

MW-120	6/4/2015
Total Metals	
Arsenic	<0.005
Copper	0.0063
Lead	<0.001
Zinc	0.533
Dissolved Metals	
Arsenic	<0.005
Copper	0.00268
Lead	<0.001
Zinc	0.458

MW-25	6/2/2015
Total Metals	
Arsenic	<0.005
Copper	0.269
Lead	0.0153
Zinc	3.31
Dissolved Metals	
Arsenic	<0.005
Copper	0.291
Lead	0.0138
Zinc	3.50

TW-3	6/5/2015
Total Metals	
Arsenic	<0.005
Copper	0.884
Lead	0.00544
Zinc	2.16
Dissolved Metals	
Arsenic	<0.005
Copper	0.724
Lead	0.00309
Zinc	2.08

MW-109	6/3/2015
Total Metals	
Arsenic	0.181
Copper	0.0782
Lead	1.02
Zinc	25.7
Dissolved Metals	
Arsenic	0.158
Copper	0.0732
Lead	0.565
Zinc	29.2

MW-113	6/2/2015
Total Metals	
Arsenic	0.0177
Copper	13.2
Lead	0.0185
Zinc	4.10
Dissolved Metals	
Arsenic	0.0189
Copper	12.4
Lead	0.00545
Zinc	72.2

MW-104A	6/1/2015
Total Metals	
Arsenic	<0.005
Copper	<0.002
Lead	0.0109
Zinc	
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	<0.010

MW-22	5/29/2015
Total Metals	
Arsenic	<0.005
Copper	1.56
Lead	0.00235
Zinc	4.15
Dissolved Metals	
Arsenic	<0.005
Copper	1.46
Lead	0.00190
Zinc	3.92

TW-4	5/29/2015
Total Metals	
Arsenic	<0.005
Copper	0.149
Lead	0.00349
Zinc	0.793
Dissolved Metals	
Arsenic	<0.005
Copper	0.145
Lead	<0.001
Zinc	0.752

TW-1	5/28/2015
Total Metals	
Arsenic	<0.005
Copper	0.00288
Lead	0.00193
Zinc	0.224
Dissolved Metals	
Arsenic	<0.005
Copper	<0.002
Lead	<0.001
Zinc	0.202

TW-2	5/28/2015
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	<0.010

MW-1B	5/27/2015
Total Metals	
Arsenic	<0.005
Copper	0.00838
Lead	<0.001
Zinc	0.0310
Dissolved Metals	
Arsenic	<0.005
Copper	0.00413
Lead	<0.001
Zinc	0.0238

OW-1	6/3/2015
Total Metals	
Arsenic	0.0801
Copper	0.250
Lead	<0.001
Zinc	5.75
Dissolved Metals	
Arsenic	0.0226
Copper	0.0869
Lead	0.00135
Zinc	5.90

MW-116	5/28/2015
Total Metals	
Arsenic	<0.005
Copper	1.85
Lead	0.00187
Zinc	5.06
Dissolved Metals	
Arsenic	<0.005
Copper	1.88
Lead	0.00109
Zinc	5.14

TW-6	6/1/2015
Total Metals	
Arsenic	0.00731
Copper	1.08
Lead	<0.001
Zinc	125
Dissolved Metals	
Arsenic	0.00612
Copper	0.941
Lead	<0.001
Zinc	37.3

TW-8	6/2/2015
Total Metals	
Arsenic	0.0979
Copper	0.0199
Lead	0.00237
Zinc	2.02
Dissolved Metals	
Arsenic	0.0369
Copper	0.00244J
Lead	<0.001
Zinc	1.37

MW-112	5/28/2015
Total Metals	
Arsenic	0.00783
Copper	0.0504
Lead	<0.001
Zinc	2.13
Dissolved Metals	
Arsenic	0.00969
Copper	0.0455
Lead	<0.001
Zinc	2.09

MW-108	5/28/2015
Total Metals	
Arsenic	<0.005
Copper	0.151
Lead	<0.001
Zinc	2.02
Dissolved Metals	
Arsenic	<0.005
Copper	0.161
Lead	<0.001
Zinc	2.24

TW-10	6/8/2015
Total Metals	
Arsenic	<0.005
Copper	14.2
Lead	<0.001
Zinc	16.8
Dissolved Metals	
Arsenic	<0.005
Copper	19.2
Lead	<0.001
Zinc	22.2

TW-11	5/27/2015
Total Metals	
Arsenic	<0.005
Copper	0.142
Lead	0.00147
Zinc	0.504
Dissolved Metals	
Arsenic	<0.005
Copper	0.126
Lead	<0.001
Zinc	0.461

MW-26	5/28/2015
Total Metals	
Arsenic	<0.005
Copper	0.0102
Lead	<0.001
Zinc	0.142
Dissolved Metals	
Arsenic	<0.005
Copper	0.0097
Lead	<0.001
Zinc	0.136

MW-101	5/27/2015
Total Metals	
Arsenic	<0.005
Copper	0.0175
Lead	0.00292
Zinc	0.925
Dissolved Metals	
Arsenic	<0.005
Copper	0.00839
Lead	0.00139
Zinc	0.800

MW-102	5/27/2015
Total Metals	
Arsenic	<0.005
Copper	0.00977
Lead	0.00115
Zinc	0.129
Dissolved Metals	
Arsenic	<0.005
Copper	0.00726
Lead	<0.001
Zinc	0.107

MW-12	5/27/2015
Total Metals	
Arsenic	<0.005
Copper	0.00831
Lead	<0.001
Zinc	0.214
Dissolved Metals	
Arsenic	<0.005
Copper	0.00927
Lead	<0.001
Zinc	0.207

MW-117	6/2/2015
Total Metals	
Arsenic	<0.005
Copper	0.0295
Lead	0.00117
Zinc	0.802
Dissolved Metals	
Arsenic	<0.005
Copper	0.0321
Lead	<0.001
Zinc	0.865

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 — 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

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 DEL — 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	7/20/2015

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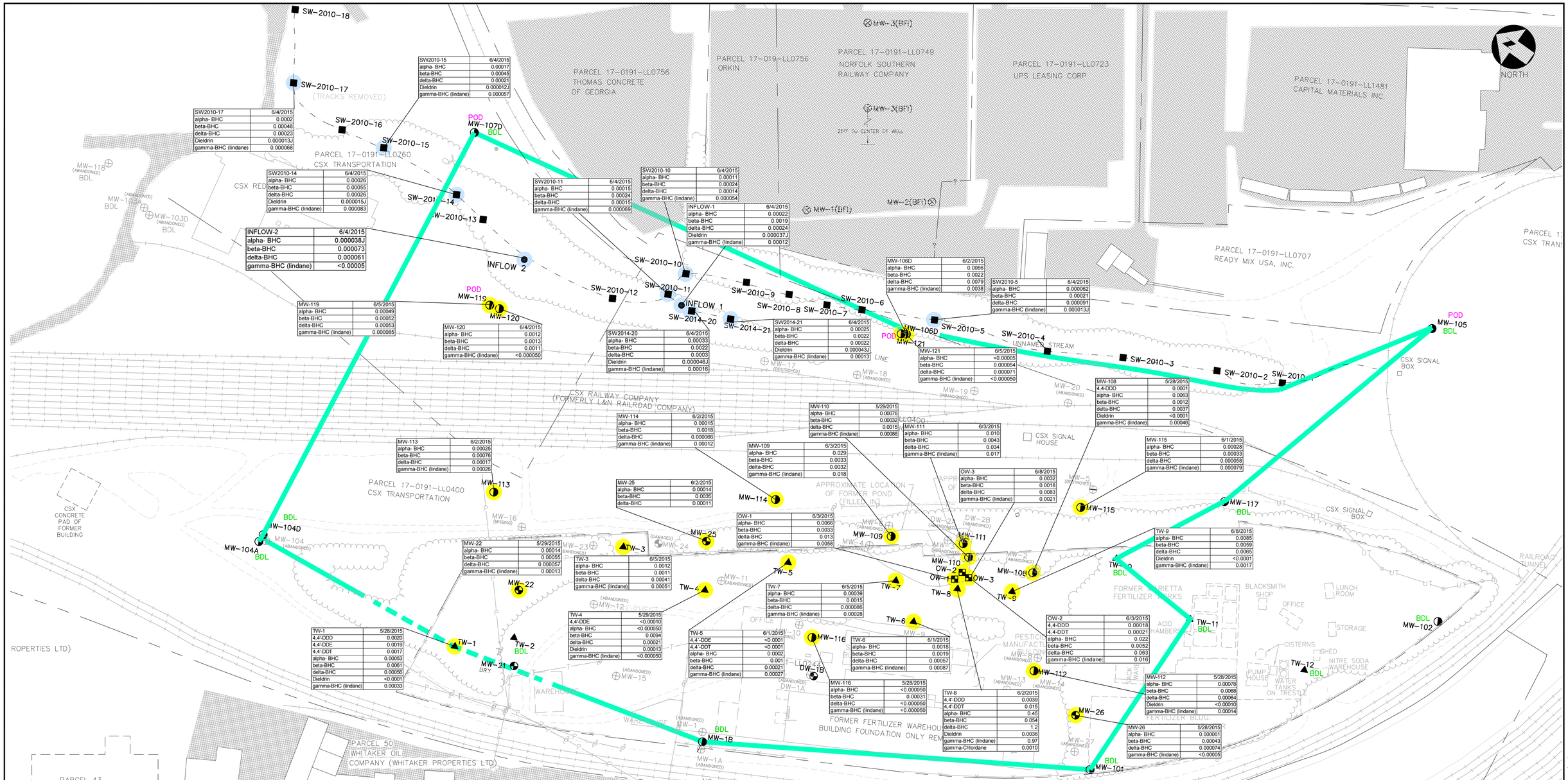
DISTRIBUTION AND DELINEATION OF ARSENIC, LEAD, COPPER AND ZINC DETECTED IN GROUND WATER

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

J:\BFEL ATLANTA\JULY 2015\DELINEATION OF LEAD COPPER ZINC.dwg — Layout1 08/05/2015 8:49pm TonyaGladstone



SW2010-18	6/4/2015
alpha- BHC	0.0002
beta-BHC	0.00048
delta-BHC	0.00023
Dieldrin	0.000013J
gamma-BHC (lindane)	0.000068

SW2010-17	6/4/2015
alpha- BHC	0.0002
beta-BHC	0.00048
delta-BHC	0.00023
Dieldrin	0.000013J
gamma-BHC (lindane)	0.000068

SW2010-16	6/4/2015
alpha- BHC	0.00017
beta-BHC	0.00045
delta-BHC	0.00021
Dieldrin	0.000012J
gamma-BHC (lindane)	0.000057

SW2010-15	6/4/2015
alpha- BHC	0.00017
beta-BHC	0.00045
delta-BHC	0.00021
Dieldrin	0.000012J
gamma-BHC (lindane)	0.000057

SW2010-14	6/4/2015
alpha- BHC	0.00026
beta-BHC	0.00055
delta-BHC	0.00026
Dieldrin	0.000015J
gamma-BHC (lindane)	0.000083

INFLOW-2	6/4/2015
alpha- BHC	0.000038J
beta-BHC	0.000073
delta-BHC	0.000061
gamma-BHC (lindane)	<0.00005

SW2010-11	6/4/2015
alpha- BHC	0.00015
beta-BHC	0.00024
delta-BHC	0.00015
gamma-BHC (lindane)	0.000069

SW2010-10	6/4/2015
alpha- BHC	0.00011
beta-BHC	0.00024
delta-BHC	0.00014
gamma-BHC (lindane)	0.000054

INFLOW-1	6/4/2015
alpha- BHC	0.00022
beta-BHC	0.0019
delta-BHC	0.00024
Dieldrin	0.000037J
gamma-BHC (lindane)	0.00012

MW-106D	6/2/2015
alpha- BHC	0.0066
beta-BHC	0.0022
delta-BHC	0.0079
gamma-BHC (lindane)	0.0038

SW2010-5	6/4/2015
alpha- BHC	0.000062
beta-BHC	0.00021
delta-BHC	0.000091
gamma-BHC (lindane)	0.000013J

MW-119	6/5/2015
alpha- BHC	0.00049
beta-BHC	0.00052
delta-BHC	0.00053
gamma-BHC (lindane)	0.000065

MW-120	6/4/2015
alpha- BHC	0.0012
beta-BHC	0.0013
delta-BHC	0.0011
gamma-BHC (lindane)	<0.000050

SW2014-20	6/4/2015
alpha- BHC	0.00033
beta-BHC	0.0022
delta-BHC	0.0003
Dieldrin	0.000046J
gamma-BHC (lindane)	0.00016

SW2014-21	6/4/2015
alpha- BHC	0.00025
beta-BHC	0.0022
delta-BHC	0.00022
Dieldrin	0.000043J
gamma-BHC (lindane)	0.00013

MW-121	6/5/2015
alpha- BHC	<0.00005
beta-BHC	0.000054
delta-BHC	0.000071
gamma-BHC (lindane)	<0.000050

MW-108	5/28/2015
4,4-DDD	0.0001
alpha- BHC	0.0063
beta-BHC	0.0012
delta-BHC	0.0037
Dieldrin	<0.0001
gamma-BHC (lindane)	0.00046

MW-115	6/1/2015
alpha- BHC	0.00028
beta-BHC	0.00033
delta-BHC	0.000058
gamma-BHC (lindane)	0.000079

MW-114	6/2/2015
alpha- BHC	0.00015
beta-BHC	0.0018
delta-BHC	0.000066
gamma-BHC (lindane)	0.00012

MW-110	5/29/2015
alpha- BHC	0.00076
beta-BHC	0.00032
delta-BHC	0.0015
gamma-BHC (lindane)	0.00086

MW-111	6/3/2015
alpha- BHC	0.010
beta-BHC	0.0043
delta-BHC	0.034
gamma-BHC (lindane)	0.017

MW-113	6/2/2015
alpha- BHC	0.00025
beta-BHC	0.00076
delta-BHC	0.00017
gamma-BHC (lindane)	0.00026

MW-109	6/3/2015
alpha- BHC	0.029
beta-BHC	0.0033
delta-BHC	0.0032
gamma-BHC (lindane)	0.018

OW-3	6/8/2015
alpha- BHC	0.0032
beta-BHC	0.0018
delta-BHC	0.0083
gamma-BHC (lindane)	0.0021

MW-25	6/2/2015
alpha- BHC	0.00014
beta-BHC	0.0035
delta-BHC	0.00011

OW-1	6/3/2015
alpha- BHC	0.0066
beta-BHC	0.0033
delta-BHC	0.013
gamma-BHC (lindane)	0.0058

MW-22	5/29/2015
alpha- BHC	0.00014
beta-BHC	0.00055
delta-BHC	0.000057
gamma-BHC (lindane)	0.00013

TW-3	6/5/2015
alpha- BHC	0.0012
beta-BHC	0.0011
delta-BHC	0.00041
gamma-BHC (lindane)	0.00051

TW-7	6/5/2015
alpha- BHC	0.00039
beta-BHC	0.0015
delta-BHC	0.000086
gamma-BHC (lindane)	0.00028

TW-9	6/8/2015
alpha- BHC	0.0085
beta-BHC	0.0059
delta-BHC	0.0065
Dieldrin	<0.0001
gamma-BHC (lindane)	0.0017

TW-4	5/29/2015
4,4'-DDE	<0.00010
alpha- BHC	<0.000050
beta-BHC	0.0094
delta-BHC	0.00021
Dieldrin	0.00013
gamma-BHC (lindane)	<0.000050

TW-5	6/1/2015
4,4'-DDE	<0.0001
4,4'-DDT	<0.0001
alpha- BHC	0.0002
beta-BHC	0.001
delta-BHC	0.00021
gamma-BHC (lindane)	0.00027

TW-6	6/1/2015
alpha- BHC	0.0018
beta-BHC	0.0019
delta-BHC	0.00057
gamma-BHC (lindane)	0.00087

OW-2	6/3/2015
4,4-DDD	0.00018
4,4-DDT	0.00021
alpha- BHC	0.022
beta-BHC	0.0052
delta-BHC	0.063
gamma-BHC (lindane	0.016

TW-1	5/28/2015
4,4'-DDD	0.0020
4,4'-DDE	0.0019
4,4'-DDT	0.0017
alpha- BHC	0.00053
beta-BHC	0.0061
delta-BHC	0.00056
Dieldrin	<0.0001
gamma-BHC (lindane)	0.00033

MW-116	5/28/2015
alpha- BHC	<0.000050
beta-BHC	0.00031
delta-BHC	<0.000050
gamma-BHC (lindane)	<0.000050

TW-8	6/2/2015
4,4-DDD	0.0039
4,4'-DDT	0.015
alpha- BHC	0.45
beta-BHC	0.054
delta-BHC	1.2
Dieldrin	0.0036
gamma-BHC (lindane)	0.97
gamma-Chlordane	0.0010

MW-112	5/28/2015
alpha- BHC	0.00078
beta-BHC	0.0068
delta-BHC	0.00064
Dieldrin	<0.00010
gamma-BHC (lindane)	0.00014

MW-26	5/28/2015
alpha- BHC	0.000061
beta-BHC	0.00043
delta-BHC	0.000074
gamma-BHC (lindane)	<0.00005

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

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)

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IN CHARGE	L. NEAL
DATE	7/20/2015

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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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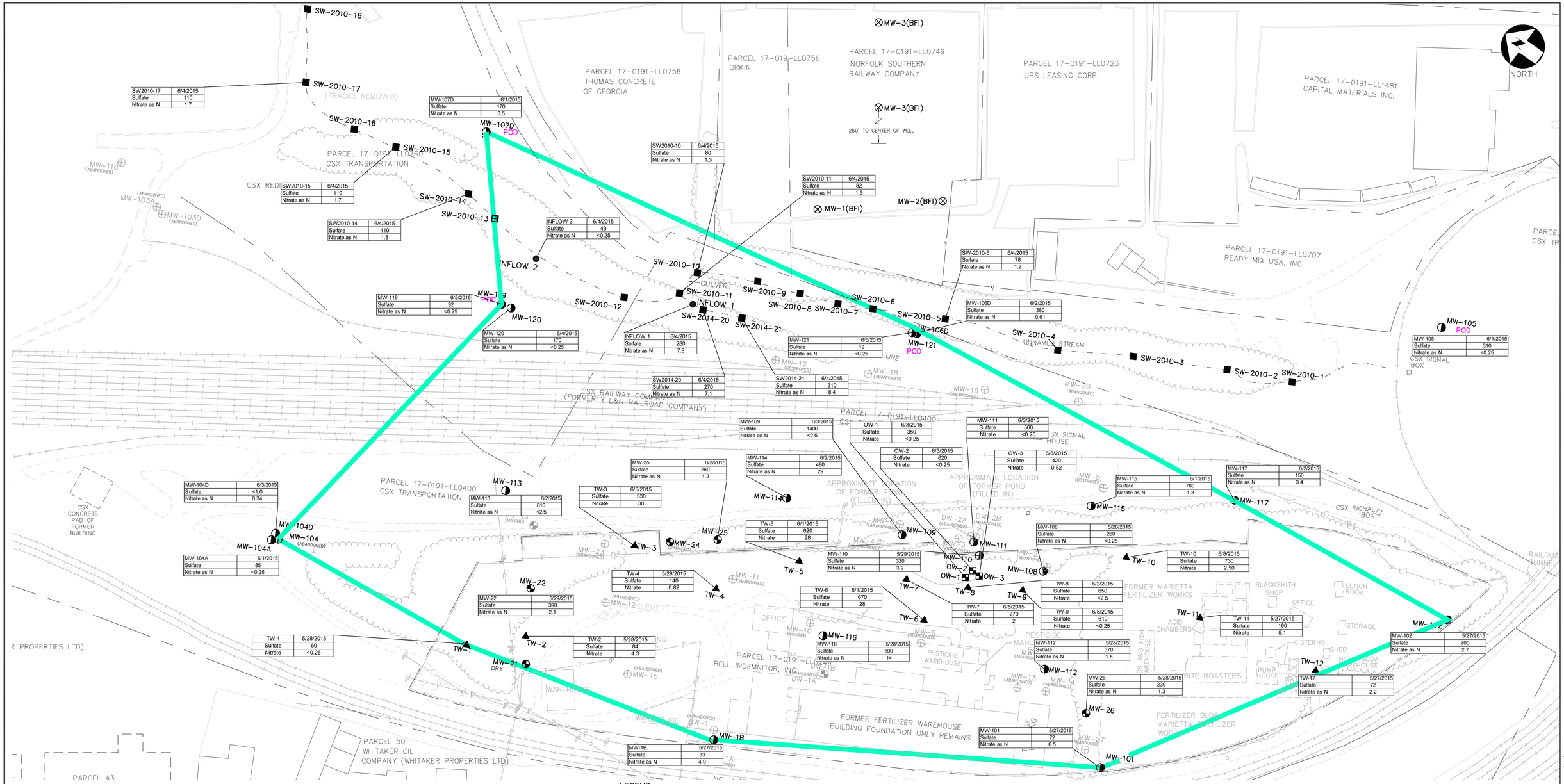

LEGEND:

- 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)

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CHECKED	R. QUINN
IN CHARGE	G. WRENN
DATE	7/20/2015

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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\JULY 2015\DELINEATION OF NITRATE AND SULFATE.dwg - Layout1 08/05/2015 8:49pm Tonya.Gladstone

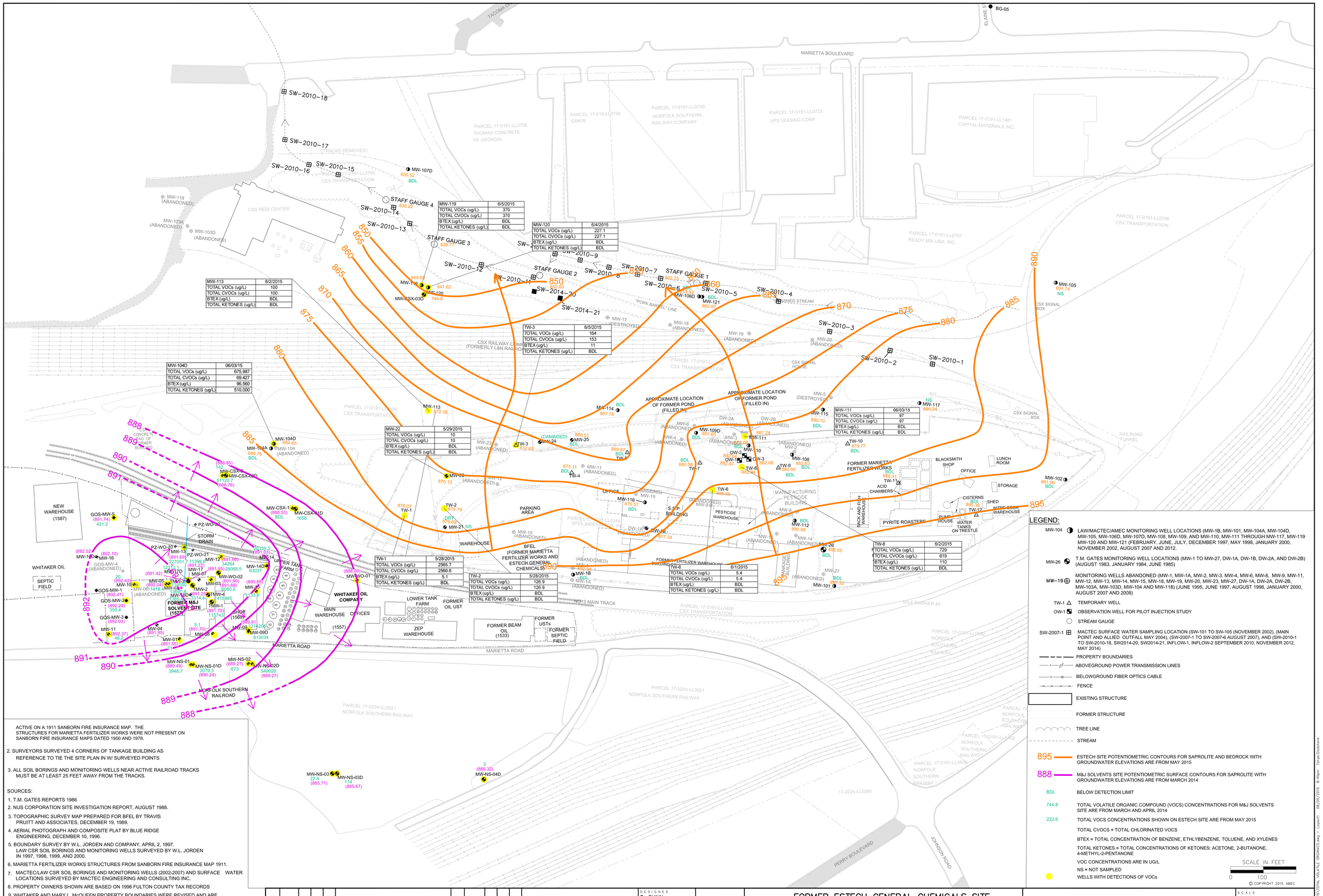
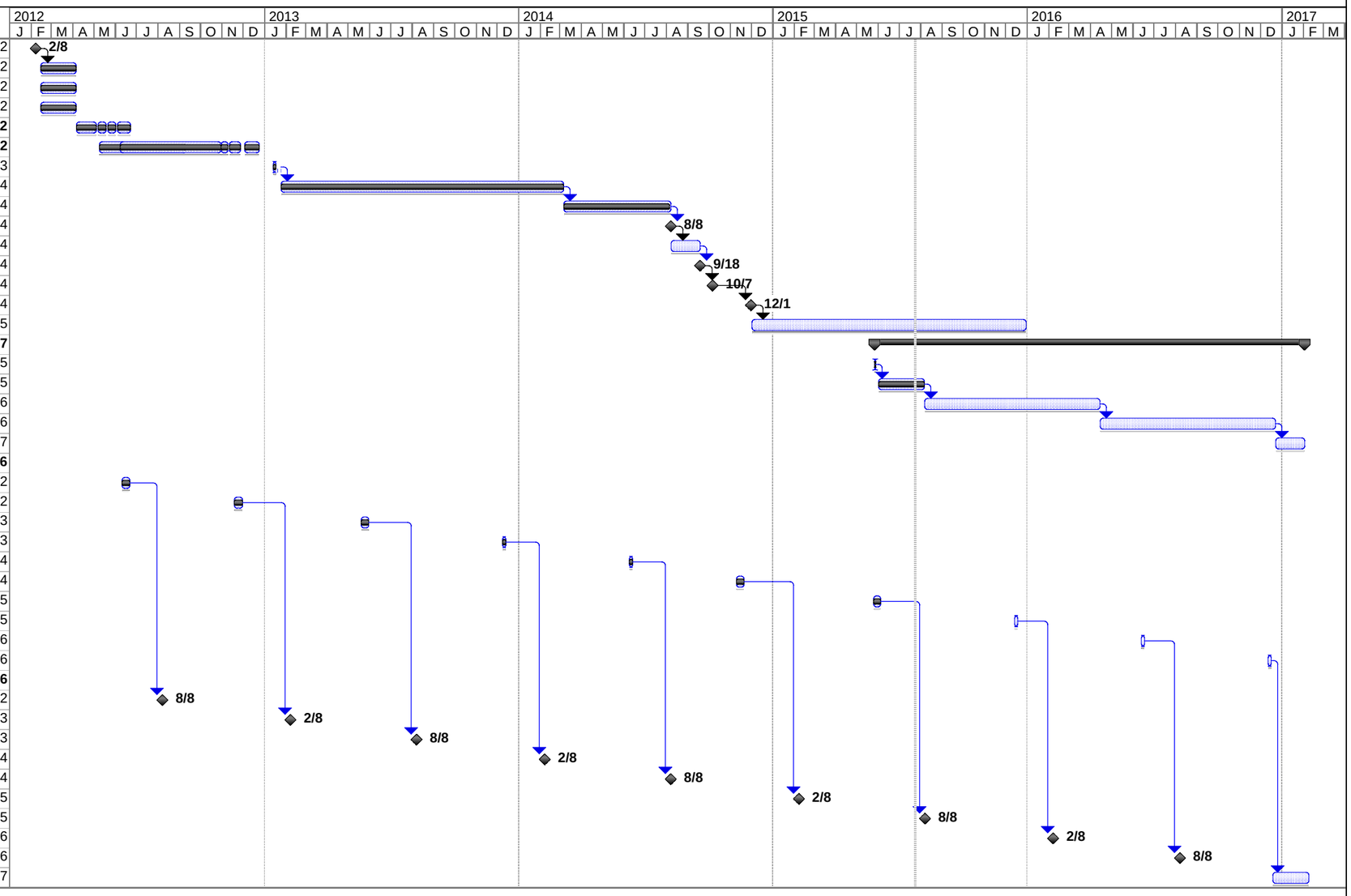

MARIETTA BOULEVARD
PARCEL 17-0191-LL0756 THOMAS CONCRETE OF GEORGIA
PARCEL 17-019-LL0756 ORKIN
PARCEL 17-0191-LL0749 NORFOLK SOUTHERN RAILWAY COMPANY
PARCEL 17-0191-LL0723 UPS LEASING CORP
PARCEL 17-0191-LL1481 CAPITAL MATERIALS INC.
PARCEL 17-0191-LL0756 CSX TRANSPORTATION
PARCEL 17-0191-LL0707 READY MIX USA, INC.
CSX REDI CENTER
WHITAKER OIL
SEPTIC FIELD
NEW WAREHOUSE (1587)
FORMER M&J SOLVENT SITE (1577)
WHITAKER OIL COMPANY
MAIN WAREHOUSE
OFFICES (1557)
LOWER TANK FARM
UPPER TANK FARM
ZEP WAREHOUSE
FORMER OIL UST
FORMER BEAM OIL (1533)
FORMER USTs
FORMER SEPTIC FIELD
WAREHOUSE
PARKING AREA
OFFICE
BFEL (FORMER MARIETTA FERTILIZER WORKS AND ESTECH GENERAL CHEMICALS)
FORMER FERTILIZER WAREHOUSE
MANUFACTURING PESTICIDE BUILDINGS
PESTICIDE WAREHOUSE
S.S.P. BUILDING
TANKAGE BUILDING
SACK AND FLUSH WAREHOUSE
PYRITE ROASTERS
ACID CHAMBERS
BLACKSMITH SHOP
OFFICE
LUNCH ROOM
STORAGE
PUMP HOUSE
WATER TANKS ON TRESTLE
CISTERNS
SHED
NITRIC ACID WAREHOUSE
FORMER MARIETTA FERTILIZER WORKS
NAMED STREAM
"FORK BARREL" LINE
CSX RAILWAY COMPANY (FORMERLY L&N RAILROAD)
CSX SIGNAL BOX
CSX SIGNAL HOUSE
RAILROAD TUNNEL
MILE MARKER #4
NO. 3 MAIN TRACK
ASPHALT PAVEMENT
(TRACKS REMOVED)
NORFOLK SOUTHERN RAILROAD
MARIETTA ROAD
PERRY BOULEVARD
JOHNSON ROAD
PARCEL 17-0224-LL0021 NORFOLK SOUTHERN RAILWAY
PARCEL 17-0191-LL0400 CSX TRANSPORTATION
PARCEL 17-0191-LL0603 NORFOLK SOUTHERN RAILWAY
17-0224-LL0260
APPROXIMATE LOCATION OF FORMER POND (FILLED IN)
STAFF GAUGE 1
STAFF GAUGE 2
STAFF GAUGE 3
STAFF GAUGE 4
SW-2010-1
SW-2010-2
SW-2010-3
SW-2010-4
SW-2010-5
SW-2010-6
SW-2010-7
SW-2010-8
SW-2010-9
SW-2010-10
SW-2010-11
SW-2010-12
SW-2010-13
SW-2010-14
SW-2010-15
SW-2010-16
SW-2010-17
SW-2010-18
SW-2014-20
SW-2014-21
PZ-WO-1
PZ-WO-2
PZ-WO-20
PZ-WO-21
GOS-MW-1 (892.41)
GOS-MW-2 (892.24) 359.4
GOS-MW-3 (892.03)
GOS-MW-4 (ABANDONED)
GOS-MW-5 (891.74) 421.2
MW-1 (ABANDONED)
MW-1A (ABANDONED)
MW-1B (ABANDONED)
MW-2 (ABANDONED)
MW-3 (ABANDONED)
MW-4 (ABANDONED)
MW-5 (DESTROYED)
MW-6 (ABANDONED)
MW-8 (ABANDONED)
MW-9 (ABANDONED)
MW-10 (ABANDONED)
MW-11 (ABANDONED) (892.37) 48.2
MW-12 (ABANDONED)
MW-14 (ABANDONED)
MW-15 (ABANDONED)
MW-16 (892.10)
MW-17 (891.96)
MW-18 (ABANDONED)
MW-19 (ABANDONED)
MW-20 (ABANDONED)
MW-26 895.05 BDL
MW-27 (ABANDONED) BDL
MW-101 892.32
MW-102 891.96 BDL
MW-103A (ABANDONED)
MW-103D (ABANDONED)
MW-104 (ABANDONED)
MW-104A 884.76 BDL
MW-104D 884.65
MW-105 891.74 NS
MW-106D BDL
MW-107D 839.69 BDL
MW-108 882.63 BDL
MW-109D 881.65 BDL
MW-111 881.24
MW-112 890.89 BDL
MW-113 872.38
MW-114 BDL 867.78
MW-115 880.10 BDL
MW-116 876.57 BDL
MW-117 NS 890.34
MW-118 (ABANDONED)
MW-120 882.75 BDL
MW-121 883.07 BDL
MW-129 744.8
MW-1201 (891.68) 9060.6
MW-1202 (891.90) 415960
MW-1203 (891.70) 115743
MW-1204 (891.95) 813034
MW-1205 (891.55) 5.1
MW-1206 (891.49) 3948.7
MW-1207 (891.59) 1214206
MW-1208 (891.49) 3079.3 (890.24)
MW-1209 (891.27) 673
MW-1210 (891.27) 549020 (889.27)
MW-1211 (891.66) 34264
MW-1212 (891.96) 128068.5
MW-1213 (891.69) 2270517
MW-1214 (891.92) 11398.6
MW-1215 (891.42) 1213.7
MW-1216 (892.02) 20
MW-1217 (892.42) 20
MW-1218 (ABANDONED)
MW-1219 (891.94) 1394.7
MW-1220 (891.82) 1314.4
MW-1221 (891.90) 333.9
MW-1222 (890.89) 333.9
MW-1223 (891.90) 5.1
MW-1224 (891.70) 1158
MW-1225 (891.70) 63037
MW-1226 (891.70) 1658
MW-1227 (891.70) 1658
MW-1228 (891.70) 1658
MW-1229 (891.70) 1658
MW-1230 (891.70) 1658
MW-1231 (891.70) 1658
MW-1232 (891.70) 1658
MW-1233 (891.70) 1658
MW-1234 (891.70) 1658
MW-1235 (891.70) 1658
MW-1236 (891.70) 1658
MW-1237 (891.70) 1658
MW-1238 (891.70) 1658

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

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



Project: BFEL Atlanta VRP Schedule
Date: Fri 7/24/15

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

APPENDIX A

LABORATORY REPORTS AND FIELD SAMPLING FORMS FOR MAY-JUNE 2015 GROUNDWATER SAMPLING EVENT

WATER LABORATORY REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 04, 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: 1505N78

Analytical Environmental Services, Inc. received 8 samples on 5/27/2015 5:31:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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

3 coolers

Work Order: 15O5N78

Date: 5/27/15 Page 1 of 1

COMPANY: AMEC Foster Wheeler E+I

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

PHONE: 770-421-3516

FAX: 770-421-3486

SAMPLED BY: D Howard, M Andrews, E Guillen

SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	#	VOCs List	Tot metal List	Dissmetal List	Pest	Nitrate/Sulfate	REMARKS	No # of Containers
	PRESERVATION (See codes)						H	N	I	I	I			
1	TB-01	5/27/15	1000	X		W	2							2
2	EB-01		1028	X		W	2	1		2	1			6
3	EB-02		1050	X		W	2	1		2	1			6
4	MW-1B		1322	X		GW	2	1	1	2	1			7
5	MW-101		1550	X		GW	2	1	1	2	1			7
6	MW-102		1610	X		GW	2	1	1	2	1			7
7	TW-12		1309	X		GW	2	1	1	2	1			7
8	TW-11		1529	X		GW	2	1	1	2	1			7
9	Temp Blank													
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	RECEIVED BY	DATE/TIME
1: Mark Andrews	5-27-15 1702	1:	5-27-15 5:02
2:	5-27-15 5:31	2:	5/27/15
3:		3:	5:31

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by Lab
* Metals List: Arsenic, Lead Copper, Zinc

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- [x] 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

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:00:00 AM
Lab ID:	1505N78-001	**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	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 19:08	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 13:15	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 13:15	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 13:15	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 13:15	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 13:15	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 13:15	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 13:15	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 13:15	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 13:15	NP
Surr: 4-Bromofluorobenzene	88.6	70.6-123		%REC	208041	1	05/29/2015 13:15	NP
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	208041	1	05/29/2015 19:08	GK
Surr: Dibromofluoromethane	92.2	78.7-124		%REC	208041	1	05/29/2015 19:08	GK
Surr: Dibromofluoromethane	108	78.7-124		%REC	208041	1	05/29/2015 13:15	NP
Surr: Toluene-d8	95.7	81.3-120		%REC	208041	1	05/29/2015 13:15	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:00:00 AM
Lab ID:	1505N78-001	**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	102	81.3-120		%REC	208041	1	05/29/2015 19:08	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:28:00 AM
Lab ID:	1505N78-002	**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	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 19:32	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 13:37	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 13:37	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 13:37	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 13:37	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 13:37	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 13:37	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 13:37	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 13:37	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 13:37	NP
Surr: 4-Bromofluorobenzene	87.5	70.6-123		%REC	208041	1	05/29/2015 13:37	NP
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	208041	1	05/29/2015 19:32	GK
Surr: Dibromofluoromethane	91.5	78.7-124		%REC	208041	1	05/29/2015 19:32	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208041	1	05/29/2015 13:37	NP
Surr: Toluene-d8	94.1	81.3-120		%REC	208041	1	05/29/2015 19:32	GK

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
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- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-01
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:28:00 AM
Lab ID:	1505N78-002	**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	96.9	81.3-120		%REC	208041	1	05/29/2015 13:37	NP
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 19:40	JS
Copper	BRL	0.00200		mg/L	208014	1	05/29/2015 19:40	JS
Lead	BRL	0.00100		mg/L	208014	1	05/29/2015 19:40	JS
Zinc	BRL	0.0100		mg/L	208014	1	05/29/2015 19:40	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R292981	1	05/28/2015 09:56	JW
Sulfate	BRL	1.0		mg/L	R292981	1	05/28/2015 09:56	JW
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 17:40	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 17:40	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 17:40	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 17:40	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 17:40	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 17:40	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 17:40	SH
Surr: Decachlorobiphenyl	84.3	14.6-130		%REC	208061	1	06/01/2015 17:40	SH
Surr: Tetrachloro-m-xylene	60.4	14.4-116		%REC	208061	1	06/01/2015 17:40	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:50:00 AM
Lab ID:	1505N78-003	**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	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 19:56	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 14:00	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 14:00	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 14:00	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:00	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:00	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 14:00	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 14:00	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 14:00	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 14:00	NP
Surr: 4-Bromofluorobenzene	89	70.6-123		%REC	208041	1	05/29/2015 14:00	NP
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	208041	1	05/29/2015 19:56	GK
Surr: Dibromofluoromethane	93.8	78.7-124		%REC	208041	1	05/29/2015 19:56	GK
Surr: Dibromofluoromethane	101	78.7-124		%REC	208041	1	05/29/2015 14:00	NP
Surr: Toluene-d8	93.9	81.3-120		%REC	208041	1	05/29/2015 19:56	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	EB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 10:50:00 AM
Lab ID:	1505N78-003	**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	94.4	81.3-120		%REC	208041	1	05/29/2015 14:00	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 20:37	JS
Copper	0.00950	0.00200		mg/L	208014	1	05/29/2015 20:37	JS
Lead	0.00277	0.00100		mg/L	208014	1	05/29/2015 20:37	JS
Zinc	0.0227	0.0100		mg/L	208014	1	05/29/2015 20:37	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R292981	1	05/28/2015 10:11	JW
Sulfate	BRL	1.0		mg/L	R292981	1	05/28/2015 10:11	JW
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 17:58	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 17:58	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 17:58	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 17:58	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 17:58	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 17:58	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 17:58	SH
Surr: Decachlorobiphenyl	88.4	14.6-130		%REC	208061	1	06/01/2015 17:58	SH
Surr: Tetrachloro-m-xylene	64.5	14.4-116		%REC	208061	1	06/01/2015 17:58	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-1B
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 1:22:00 PM
Lab ID:	1505N78-004	**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	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 20:21	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 14:22	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 14:22	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 14:22	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:22	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:22	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 14:22	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 14:22	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 14:22	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 14:22	NP
Surr: 4-Bromofluorobenzene	86	70.6-123		%REC	208041	1	05/29/2015 14:22	NP
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	208041	1	05/29/2015 20:21	GK
Surr: Dibromofluoromethane	94.1	78.7-124		%REC	208041	1	05/29/2015 20:21	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208041	1	05/29/2015 14:22	NP
Surr: Toluene-d8	93.7	81.3-120		%REC	208041	1	05/29/2015 20:21	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-1B
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 1:22:00 PM
Lab ID:	1505N78-004	**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	95.8	81.3-120		%REC	208041	1	05/29/2015 14:22	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 20:42	JS
Copper	0.00838	0.00200		mg/L	208014	1	05/29/2015 20:42	JS
Lead	BRL	0.00100		mg/L	208014	1	05/29/2015 20:42	JS
Zinc	0.0310	0.0100		mg/L	208014	1	05/29/2015 20:42	JS
ION SCAN SW9056A								
Nitrate	4.9	0.25		mg/L	R292981	1	05/28/2015 10:26	JW
Sulfate	33	1.0		mg/L	R292981	1	05/28/2015 10:26	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:00	JS
Copper	0.00413	0.00200		mg/L	208237	1	06/03/2015 07:00	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 07:00	JS
Zinc	0.0238	0.0100		mg/L	208237	1	06/03/2015 07:00	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 18:17	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 18:17	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 18:17	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 18:17	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 18:17	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 18:17	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 18:17	SH
Surr: Decachlorobiphenyl	86.5	14.6-130		%REC	208061	1	06/01/2015 18:17	SH
Surr: Tetrachloro-m-xylene	74.3	14.4-116		%REC	208061	1	06/01/2015 18:17	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-101
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 3:50:00 PM
Lab ID:	1505N78-005	**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	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 20:45	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 14:45	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 14:45	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 14:45	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:45	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 14:45	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 14:45	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 14:45	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 14:45	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 14:45	NP
Surr: 4-Bromofluorobenzene	87.1	70.6-123		%REC	208041	1	05/29/2015 14:45	NP
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	208041	1	05/29/2015 20:45	GK
Surr: Dibromofluoromethane	94.3	78.7-124		%REC	208041	1	05/29/2015 20:45	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208041	1	05/29/2015 14:45	NP
Surr: Toluene-d8	95.6	81.3-120		%REC	208041	1	05/29/2015 20:45	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-101
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 3:50:00 PM
Lab ID:	1505N78-005	**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	81.3-120		%REC	208041	1	05/29/2015 14:45	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 20:47	JS
Copper	0.0175	0.00200		mg/L	208014	1	05/29/2015 20:47	JS
Lead	0.00292	0.00100		mg/L	208014	1	05/29/2015 20:47	JS
Zinc	0.925	0.0100		mg/L	208014	1	05/29/2015 20:47	JS
ION SCAN SW9056A								
Nitrate	6.5	0.25		mg/L	R292981	1	05/28/2015 10:40	JW
Sulfate	72	1.0		mg/L	R292981	1	05/28/2015 10:40	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:25	JS
Copper	0.00839	0.00200		mg/L	208237	1	06/03/2015 07:25	JS
Lead	0.00139	0.00100		mg/L	208237	1	06/03/2015 07:25	JS
Zinc	0.800	0.0100		mg/L	208237	1	06/03/2015 07:25	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 18:35	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 18:35	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 18:35	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 18:35	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 18:35	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 18:35	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 18:35	SH
Surr: Decachlorobiphenyl	89.2	14.6-130		%REC	208061	1	06/01/2015 18:35	SH
Surr: Tetrachloro-m-xylene	74.9	14.4-116		%REC	208061	1	06/01/2015 18:35	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-102
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 4:10:00 PM
Lab ID:	1505N78-006	**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	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 21:09	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 15:07	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 15:07	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 15:07	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:07	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:07	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 15:07	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 15:07	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 15:07	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 15:07	NP
Surr: 4-Bromofluorobenzene	87.3	70.6-123		%REC	208041	1	05/29/2015 15:07	NP
Surr: 4-Bromofluorobenzene	94.8	70.6-123		%REC	208041	1	05/29/2015 21:09	GK
Surr: Dibromofluoromethane	93.5	78.7-124		%REC	208041	1	05/29/2015 21:09	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208041	1	05/29/2015 15:07	NP
Surr: Toluene-d8	92.5	81.3-120		%REC	208041	1	05/29/2015 21:09	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-102
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 4:10:00 PM
Lab ID:	1505N78-006	**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	95.6	81.3-120		%REC	208041	1	05/29/2015 15:07	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/03/2015 00:05	JS
Copper	0.00977	0.00200		mg/L	208014	1	05/29/2015 20:52	JS
Lead	0.00115	0.00100		mg/L	208014	1	05/29/2015 20:52	JS
Zinc	0.129	0.0100		mg/L	208014	1	05/29/2015 20:52	JS
ION SCAN SW9056A								
Nitrate	2.7	0.25		mg/L	R292981	1	05/28/2015 10:55	JW
Sulfate	200	10		mg/L	R292981	10	05/28/2015 11:47	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:31	JS
Copper	0.00726	0.00200		mg/L	208237	1	06/03/2015 07:31	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 07:31	JS
Zinc	0.107	0.0100		mg/L	208237	1	06/03/2015 07:31	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 18:54	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 18:54	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 18:54	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 18:54	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 18:54	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 18:54	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 18:54	SH
Surr: Decachlorobiphenyl	92.4	14.6-130		%REC	208061	1	06/01/2015 18:54	SH
Surr: Tetrachloro-m-xylene	80	14.4-116		%REC	208061	1	06/01/2015 18:54	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-12
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 1:09:00 PM
Lab ID:	1505N78-007	**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	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 21:33	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 15:30	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 15:30	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 15:30	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:30	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:30	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 15:30	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 15:30	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 15:30	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 15:30	NP
Surr: 4-Bromofluorobenzene	88.8	70.6-123		%REC	208041	1	05/29/2015 15:30	NP
Surr: 4-Bromofluorobenzene	93.2	70.6-123		%REC	208041	1	05/29/2015 21:33	GK
Surr: Dibromofluoromethane	95.2	78.7-124		%REC	208041	1	05/29/2015 21:33	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208041	1	05/29/2015 15:30	NP
Surr: Toluene-d8	94.5	81.3-120		%REC	208041	1	05/29/2015 21:33	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-12
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 1:09:00 PM
Lab ID:	1505N78-007	**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	95.9	81.3-120		%REC	208041	1	05/29/2015 15:30	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 20:58	JS
Copper	0.00831	0.00200		mg/L	208014	1	05/29/2015 20:58	JS
Lead	BRL	0.00100		mg/L	208014	1	05/29/2015 20:58	JS
Zinc	0.214	0.0100		mg/L	208014	1	05/29/2015 20:58	JS
ION SCAN SW9056A								
Nitrate	2.2	0.25		mg/L	R292981	1	05/28/2015 11:10	JW
Sulfate	72	1.0		mg/L	R292981	1	05/28/2015 11:10	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:46	JS
Copper	0.00927	0.00200		mg/L	208237	1	06/03/2015 07:46	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 07:46	JS
Zinc	0.207	0.0100		mg/L	208237	1	06/03/2015 07:46	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 19:12	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 19:12	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 19:12	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 19:12	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 19:12	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 19:12	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 19:12	SH
Surr: Decachlorobiphenyl	88.5	14.6-130		%REC	208061	1	06/01/2015 19:12	SH
Surr: Tetrachloro-m-xylene	72.7	14.4-116		%REC	208061	1	06/01/2015 19:12	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-11
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 3:29:00 PM
Lab ID:	1505N78-008	**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	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
1,4-Dioxane	BRL	0.15		mg/L	208041	1	05/29/2015 21:58	GK
2-Butanone	BRL	0.050		mg/L	208041	1	05/29/2015 15:53	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208041	1	05/29/2015 15:53	NP
Acetone	BRL	0.050		mg/L	208041	1	05/29/2015 15:53	NP
Benzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Carbon disulfide	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Chlorobenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Chloroethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:53	NP
Chloroform	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Chloromethane	BRL	0.010		mg/L	208041	1	05/29/2015 15:53	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Cyclohexane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Ethylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208041	1	05/29/2015 15:53	NP
Isopropylbenzene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Methylene chloride	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Naphthalene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Styrene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Tetrachloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Tetrahydrofuran	BRL	0.010		mg/L	208041	1	05/29/2015 15:53	NP
Toluene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Trichloroethene	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Vinyl chloride	BRL	0.0020		mg/L	208041	1	05/29/2015 15:53	NP
Xylenes, Total	BRL	0.0050		mg/L	208041	1	05/29/2015 15:53	NP
Surr: 4-Bromofluorobenzene	85.5	70.6-123		%REC	208041	1	05/29/2015 15:53	NP
Surr: 4-Bromofluorobenzene	96.1	70.6-123		%REC	208041	1	05/29/2015 21:58	GK
Surr: Dibromofluoromethane	96.8	78.7-124		%REC	208041	1	05/29/2015 21:58	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208041	1	05/29/2015 15:53	NP
Surr: Toluene-d8	95.8	81.3-120		%REC	208041	1	05/29/2015 21:58	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-11
Project Name:	BFEL-Atlanta	**Collection Date:**	5/27/2015 3:29:00 PM
Lab ID:	1505N78-008	**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	96.3	81.3-120		%REC	208041	1	05/29/2015 15:53	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	05/29/2015 21:03	JS
Copper	0.142	0.00200		mg/L	208014	1	05/29/2015 21:03	JS
Lead	0.00147	0.00100		mg/L	208014	1	05/29/2015 21:03	JS
Zinc	0.504	0.0100		mg/L	208014	1	05/29/2015 21:03	JS
ION SCAN SW9056A								
Nitrate	5.1	0.25		mg/L	R292981	1	05/28/2015 11:24	JW
Sulfate	160	10		mg/L	R292981	10	05/28/2015 12:01	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:51	JS
Copper	0.126	0.00200		mg/L	208237	1	06/03/2015 07:51	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 07:51	JS
Zinc	0.461	0.0100		mg/L	208237	1	06/03/2015 07:51	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 19:31	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 19:31	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 19:31	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 19:31	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 19:31	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 19:31	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 19:31	SH
Surr: Decachlorobiphenyl	97.7	14.6-130		%REC	208061	1	06/01/2015 19:31	SH
Surr: Tetrachloro-m-xylene	80.5	14.4-116		%REC	208061	1	06/01/2015 19:31	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.

Sample/Cooler Receipt Checklist

Client AMEC/Kennesaw Work Order Number 1505N78

Checklist completed by Katie Forum 5/27/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 4-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1505N78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505N78-001A	TB-01	5/27/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-002A	EB-01	5/27/2015 10:28:00AM	Aqueous	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-002B	EB-01	5/27/2015 10:28:00AM	Aqueous	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-002C	EB-01	5/27/2015 10:28:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-002D	EB-01	5/27/2015 10:28:00AM	Aqueous	ION SCAN			05/28/2015
1505N78-003A	EB-02	5/27/2015 10:50:00AM	Aqueous	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-003B	EB-02	5/27/2015 10:50:00AM	Aqueous	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-003C	EB-02	5/27/2015 10:50:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-003D	EB-02	5/27/2015 10:50:00AM	Aqueous	ION SCAN			05/28/2015
1505N78-004A	MW-1B	5/27/2015 1:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-004B	MW-1B	5/27/2015 1:22:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-004C	MW-1B	5/27/2015 1:22:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505N78-004D	MW-1B	5/27/2015 1:22:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-004E	MW-1B	5/27/2015 1:22:00PM	Groundwater	ION SCAN			05/28/2015
1505N78-005A	MW-101	5/27/2015 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-005B	MW-101	5/27/2015 3:50:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-005C	MW-101	5/27/2015 3:50:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505N78-005D	MW-101	5/27/2015 3:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-005E	MW-101	5/27/2015 3:50:00PM	Groundwater	ION SCAN			05/28/2015
1505N78-006A	MW-102	5/27/2015 4:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-006B	MW-102	5/27/2015 4:10:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-006B	MW-102	5/27/2015 4:10:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	06/03/2015
1505N78-006C	MW-102	5/27/2015 4:10:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505N78-006D	MW-102	5/27/2015 4:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-006E	MW-102	5/27/2015 4:10:00PM	Groundwater	ION SCAN			05/28/2015
1505N78-007A	TW-12	5/27/2015 1:09:00PM	Groundwater	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-007B	TW-12	5/27/2015 1:09:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-007C	TW-12	5/27/2015 1:09:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505N78-007D	TW-12	5/27/2015 1:09:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1505N78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505N78-007E	TW-12	5/27/2015 1:09:00PM	Groundwater	ION SCAN			05/28/2015
1505N78-008A	TW-11	5/27/2015 3:29:00PM	Groundwater	Volatile Organic Compounds by GC/MS		5/28/2015 9:50:02 AM	05/29/2015
1505N78-008B	TW-11	5/27/2015 3:29:00PM	Groundwater	Total Metals by ICP/MS		5/28/2015 3:21:00 PM	05/29/2015
1505N78-008C	TW-11	5/27/2015 3:29:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505N78-008D	TW-11	5/27/2015 3:29:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505N78-008E	TW-11	5/27/2015 3:29:00PM	Groundwater	ION SCAN			05/28/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208014

Sample ID: **MB-208014** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236170**

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									
Sodium	BRL	500									
Zinc	BRL	10.0									

Sample ID: **LCS-208014** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236169**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	103.3	5.00	100.0		103	80	120				
Copper	113.6	2.00	100.0		114	80	120				
Lead	100.8	1.00	100.0		101	80	120				
Sodium	1341	500	1000	141.3	120	80	120				
Zinc	109.0	10.0	100.0		109	80	120				

Sample ID: **1505N78-002BMS** Client ID: **EB-01** Units: **ug/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	96.25	5.00	100.0		96.3	75	125				
Copper	108.7	2.00	100.0	0.6470	108	75	125				
Lead	96.41	1.00	100.0		96.4	75	125				
Sodium	1232	500	1000	128.0	110	75	125				
Zinc	105.6	10.0	100.0		106	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208014

Sample ID: **1505N78-002BMSD** Client ID: **EB-01** Units: **ug/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236195**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	103.3	5.00	100.0		103	75	125	96.25	7.02	20	
Copper	113.0	2.00	100.0	0.6470	112	75	125	108.7	3.82	20	
Lead	100.1	1.00	100.0		100	75	125	96.41	3.77	20	
Sodium	1281	500	1000	128.0	115	75	125	1232	3.88	20	
Zinc	106.8	10.0	100.0		107	75	125	105.6	1.05	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233892**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
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-Dichloropropane	BRL	5.0									N
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
1,4-Dioxane	BRL	150									
2,2-Dichloropropane	BRL	5.0									
2,3-Dimethylbutane/2-Methylpentane	BRL	20									
2-Butanone	BRL	50									
2-Chloroethyl vinyl ether	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233892**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
2-Nitropropane	BRL	5.0									N
3-Methylpentane	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acetonitrile	BRL	100									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Allyl Chloride	BRL	10									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	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									
Chloroprene	BRL	20									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233892**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyclohexane	BRL	5.0									
Cyclohexanone	BRL	40									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Epichlorohydrin	BRL	20									N
Ethanol	BRL	100									
Ethyl acetate	BRL	50									
Ethyl Methacrylate	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Freon-141B	BRL	10									
Freon-22	BRL	10									N
Hexachlorobutadiene	BRL	5.0									
Iodomethane	BRL	10									
iso-Butyraldehyde	BRL	10									
Isobutyl Alcohol	BRL	200									
Isopropyl acetate	BRL	10									
Isopropyl alcohol	BRL	100									
Isopropyl ether	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl formate	BRL	100									
Methyl Methacrylate	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Methylacrylonitrile	BRL	200									

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233892**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methylcyclohexane	BRL	5.0									
Methylcyclopentane	BRL	10									
Methylene chloride	BRL	5.0									
n-Amyl acetate	BRL	10									
n-Butyl acetate	BRL	10									
n-Butylbenzene	BRL	5.0									
n-Heptane	BRL	10									N
n-Hexane	BRL	10									
n-Propylbenzene	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Pentachloroethane	BRL	10									
Phosgene	BRL	20									N
Propionitrile	BRL	100									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butyl Alcohol	BRL	100									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Tetrahydrofuran	BRL	10									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041**	Client ID:				Units: **ug/L**		Prep Date: **05/28/2015**		Run No: **292749**	
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **208041**		Analysis Date: **05/28/2015**		Seq No: **6233892**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	42.77	0	50.00		85.5	70.6	123				
Surr: Dibromofluoromethane	51.28	0	50.00		103	78.7	124				
Surr: Toluene-d8	47.88	0	50.00		95.8	81.3	120				

Sample ID: **MB-208041**	Client ID:				Units: **ug/L**		Prep Date: **05/28/2015**		Run No: **292832**	
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **208041**		Analysis Date: **05/29/2015**		Seq No: **6235440**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	150									
Surr: 4-Bromofluorobenzene	48.53	0	50.00		97.1	70.6	123				
Surr: Dibromofluoromethane	47.92	0	50.00		95.8	78.7	124				
Surr: Toluene-d8	46.21	0	50.00		92.4	81.3	120				

Sample ID: **MB-208041**	Client ID:				Units: **ug/L**		Prep Date: **05/28/2015**		Run No: **292841**	
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**				BatchID: **208041**		Analysis Date: **05/29/2015**		Seq No: **6235630**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isobutyl Alcohol	BRL	200									
Tetrahydrofuran	BRL	10									
Surr: 4-Bromofluorobenzene	44.82	0	50.00		89.6	70.6	123				
Surr: Dibromofluoromethane	53.09	0	50.00		106	78.7	124				
Surr: Toluene-d8	51.07	0	50.00		102	81.3	120				

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **MB-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292875**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/29/2015** Seq No: **6236533**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
tert-Butyl Alcohol	BRL	100									
Surr: 4-Bromofluorobenzene	43.56	0	50.00		87.1	70.6	123				
Surr: Dibromofluoromethane	50.17	0	50.00		100	78.7	124				
Surr: Toluene-d8	46.54	0	50.00		93.1	81.3	120				

Sample ID: **LCS-208041** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233891**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.92	5.0	50.00		114	64.2	137				
Benzene	48.72	5.0	50.00		97.4	72.8	128				
Chlorobenzene	51.61	5.0	50.00		103	72.3	126				
Toluene	48.75	5.0	50.00		97.5	74.9	127				
Trichloroethene	48.11	5.0	50.00		96.2	70.5	134				
Surr: 4-Bromofluorobenzene	44.01	0	50.00		88.0	70.6	123				
Surr: Dibromofluoromethane	50.20	0	50.00		100	78.7	124				
Surr: Toluene-d8	46.96	0	50.00		93.9	81.3	120				

Sample ID: **1505N57-001AMS** Client ID: Units: **ug/L** Prep Date: **05/28/2015** Run No: **292749**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208041** Analysis Date: **05/28/2015** Seq No: **6233917**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	52.90	5.0	50.00		106	60.5	156				
Benzene	45.78	5.0	50.00		91.6	70	135				
Chlorobenzene	49.79	5.0	50.00		99.6	70.5	132				
Toluene	45.74	5.0	50.00		91.5	70.5	137				
Trichloroethene	44.81	5.0	50.00		89.6	71.8	139				
Surr: 4-Bromofluorobenzene	43.93	0	50.00		87.9	70.6	123				

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208041

Sample ID: **1505N57-001AMS**	Client ID:			Units: **ug/L**		Prep Date: **05/28/2015**		Run No: **292749**	
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **208041**		Analysis Date: **05/28/2015**		Seq No: **6233917**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Dibromofluoromethane	49.36	0	50.00		98.7	78.7	124				
Surr: Toluene-d8	45.95	0	50.00		91.9	81.3	120				

Sample ID: **1505N57-001AMSD**	Client ID:			Units: **ug/L**		Prep Date: **05/28/2015**		Run No: **292749**	
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**			BatchID: **208041**		Analysis Date: **05/28/2015**		Seq No: **6233919**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56.85	5.0	50.00		114	60.5	156	52.90	7.20	20	
Benzene	48.95	5.0	50.00		97.9	70	135	45.78	6.69	20	
Chlorobenzene	52.48	5.0	50.00		105	70.5	132	49.79	5.26	20	
Toluene	49.17	5.0	50.00		98.3	70.5	137	45.74	7.23	20	
Trichloroethene	47.50	5.0	50.00		95.0	71.8	139	44.81	5.83	20	
Surr: 4-Bromofluorobenzene	42.28	0	50.00		84.6	70.6	123	43.93	0	0	
Surr: Dibromofluoromethane	51.81	0	50.00		104	78.7	124	49.36	0	0	
Surr: Toluene-d8	47.02	0	50.00		94.0	81.3	120	45.95	0	0	

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Sample ID: **MB-208061** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238301**

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									
Aldrin	BRL	0.050									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
Endosulfan I	BRL	0.050									
Endosulfan II	BRL	0.10									
Endosulfan sulfate	BRL	0.10									
Endrin	BRL	0.10									
Endrin aldehyde	BRL	0.10									
Endrin ketone	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Heptachlor epoxide	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.4125	0	0.5000		82.5	14.6	130				
Surr: Tetrachloro-m-xylene	0.2969	0	0.5000		59.4	14.4	116				

Sample ID: **LCS-208061** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238291**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Sample ID: **LCS-208061** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238291**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9068	0.10	1.000		90.7	52.5	140				
Aldrin	0.8670	0.050	1.000		86.7	43	123				
Dieldrin	0.8665	0.10	1.000		86.7	59.5	137				
Endrin	0.8818	0.10	1.000		88.2	53.2	139				
gamma-BHC	0.8342	0.050	1.000		83.4	46	134				
Heptachlor	0.8320	0.050	1.000		83.2	44.7	127				
Surr: Decachlorobiphenyl	0.4172	0	0.5000		83.4	14.6	130				
Surr: Tetrachloro-m-xylene	0.3095	0	0.5000		61.9	14.4	116				

Sample ID: **1505O78-007DMS** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.8374	0.10	1.000		83.7	36.3	142				
4,4´-DDE	0.8765	0.10	1.000		87.6	29.8	138				
4,4´-DDT	0.8544	0.10	1.000		85.4	27.1	146				
Aldrin	0.8124	0.050	1.000		81.2	30.6	123				
alpha-BHC	0.8014	0.050	1.000		80.1	36.6	137				
beta-BHC	1.105	0.050	1.000	0.3087	79.6	40.6	144				
delta-BHC	0.8867	0.050	1.000	0.004720	88.2	48.5	139				
Dieldrin	0.8503	0.10	1.000	0.02482	82.6	39.4	142				
Endosulfan I	0.8198	0.050	1.000		82.0	37.2	139				
Endosulfan II	0.8901	0.10	1.000		89.0	42.6	139				
Endosulfan sulfate	0.9148	0.10	1.000		91.5	51.2	144				
Endrin	0.8349	0.10	1.000		83.5	45.3	142				
Endrin aldehyde	0.8214	0.10	1.000		82.1	33.7	143				
Endrin ketone	1.008	0.10	1.000	0.07838	93.0	34.7	138				
gamma-BHC	0.7984	0.050	1.000		79.8	34.5	144				

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Sample ID: **1505O78-007DMS** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Heptachlor	0.7807	0.050	1.000		78.1	33	138				
Heptachlor epoxide	0.9269	0.050	1.000		92.7	35.7	137				
Surr: Decachlorobiphenyl	0.4000	0	0.5000		80.0	14.6	130				
Surr: Tetrachloro-m-xylene	0.3249	0	0.5000		65.0	14.4	116				

Sample ID: **1505O78-007DMSD** Client ID: Units: **ug/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238294**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.9760	0.10	1.000		97.6	36.3	142	0.8374	15.3	21.9	
4,4´-DDE	0.9937	0.10	1.000		99.4	29.8	138	0.8765	12.5	25.6	
4,4´-DDT	0.9884	0.10	1.000		98.8	27.1	146	0.8544	14.5	21.2	
Aldrin	0.9168	0.050	1.000		91.7	30.6	123	0.8124	12.1	22.9	
alpha-BHC	0.9000	0.050	1.000		90.0	36.6	137	0.8014	11.6	27.1	
beta-BHC	1.230	0.050	1.000	0.3087	92.2	40.6	144	1.105	10.7	26.3	
delta-BHC	0.9900	0.050	1.000	0.004720	98.5	48.5	139	0.8867	11.0	20	
Dieldrin	0.9696	0.10	1.000	0.02482	94.5	39.4	142	0.8503	13.1	20	
Endosulfan I	0.9274	0.050	1.000		92.7	37.2	139	0.8198	12.3	23.7	
Endosulfan II	1.015	0.10	1.000		102	42.6	139	0.8901	13.2	20.6	
Endosulfan sulfate	1.048	0.10	1.000		105	51.2	144	0.9148	13.5	26	
Endrin	0.9468	0.10	1.000		94.7	45.3	142	0.8349	12.6	21.7	
Endrin aldehyde	0.9576	0.10	1.000		95.8	33.7	143	0.8214	15.3	19.9	
Endrin ketone	1.139	0.10	1.000	0.07838	106	34.7	138	1.008	12.2	20.3	
gamma-BHC	0.9009	0.050	1.000		90.1	34.5	144	0.7984	12.1	23.1	
Heptachlor	0.8817	0.050	1.000		88.2	33	138	0.7807	12.1	26.9	
Heptachlor epoxide	0.9933	0.050	1.000		99.3	35.7	137	0.9269	6.92	20	
Surr: Decachlorobiphenyl	0.4381	0	0.5000		87.6	14.6	130	0.4000	0	0	
Surr: Tetrachloro-m-xylene	0.3568	0	0.5000		71.4	14.4	116	0.3249	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **MB-208237** Client ID: Units: **ug/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241208**

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-208237** Client ID: Units: **ug/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	97.82	5.00	100.0		97.8	80	120				
Copper	97.55	2.00	100.0		97.5	80	120				
Lead	97.06	1.00	100.0		97.1	80	120				
Zinc	95.21	10.0	100.0		95.2	80	120				

Sample ID: **1505N78-004CMS** Client ID: **MW-1B** Units: **ug/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	97.67	5.00	100.0		97.7	75	125				
Copper	96.20	2.00	100.0	4.126	92.1	75	125				
Lead	92.44	1.00	100.0		92.4	75	125				
Zinc	114.8	10.0	100.0	23.80	91.0	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **1505N78-004CMSD** Client ID: **MW-1B** Units: **ug/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	101.5	5.00	100.0		101	75	125	97.67	3.80	20	
Copper	101.1	2.00	100.0	4.126	96.9	75	125	96.20	4.94	20	
Lead	95.49	1.00	100.0		95.5	75	125	92.44	3.24	20	
Zinc	119.2	10.0	100.0	23.80	95.4	75	125	114.8	3.74	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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: R292981

Sample ID: **MB-R292981**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **292981**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R292981**		Analysis Date: **05/28/2015**		Seq No: **6238755**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	BRL	1.0								
Nitrate	BRL	0.25								
Sulfate	BRL	1.0								

Sample ID: **LCS-R292981**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **292981**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R292981**		Analysis Date: **05/28/2015**		Seq No: **6238754**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	10.19	1.0	10.00		102	90	110			
Nitrate	5.047	0.25	5.000		101	90	110			
Sulfate	25.19	1.0	25.00		101	90	110			

Sample ID: **1505N78-002DMS**	Client ID: **EB-01**				Units: **mg/L**		Prep Date:		Run No: **292981**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R292981**		Analysis Date: **05/28/2015**		Seq No: **6238769**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	10.21	1.00	10.00		102	90	110			
Nitrate	4.984	0.25	5.000		99.7	90	110			
Sulfate	25.34	1.0	25.00		101	90	110			

Sample ID: **1505N78-003DMS**	Client ID: **EB-02**				Units: **mg/L**		Prep Date:		Run No: **292981**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R292981**		Analysis Date: **05/28/2015**		Seq No: **6238771**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Chloride	10.01	1.00	10.00		100	90	110			
Nitrate	4.706	0.25	5.000		94.1	90	110			
Sulfate	23.83	1.0	25.00		95.3	90	110			

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: 1505N78

ANALYTICAL QC SUMMARY REPORT

BatchID: R292981

Sample ID: **1505N78-002DMSD** Client ID: **EB-01** Units: **mg/L** Prep Date: Run No: **292981**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R292981** Analysis Date: **05/28/2015** Seq No: **6238770**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.11	1.00	10.00		101	90	110	10.21	0.910	20	
Nitrate	4.832	0.25	5.000		96.6	90	110	4.984	3.11	20	
Sulfate	24.54	1.0	25.00		98.2	90	110	25.34	3.20	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.

June 04, 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: 1505O78

Analytical Environmental Services, Inc. received 7 samples on 5/28/2015 5:06:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 15050798

Date: _____ Page _____ of _____

COMPANY: Amec Foster Wheeler E&I	ADDRESS: 1075 Big Shanty Rd Ste 108 Kennesaw, GA 30144
PHONE: 770-421-3516	FAX: 770-421-3486
SAMPLED BY: D Howard, M Andrews, E Guillen	SIGNATURE: Daniel Howard

ANALYSIS REQUESTED

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	VOCs list	Tot metals list	Diss metals list	Pest	Nitrates & Sulfate	REMARKS	No # of Containers
1	TB-02	5/28/15	1100	X		W	H+I	2						2
2	MW-26		1158	X		GW	N	2	1	1	2	1		7
3	MW-112		1352	X		GW	N	2	1	1	2	1		7
4	TW-1		1222	X		GW	N	2	1	1	2	1		7
5	TW-2		1412	X		GW	N	2	1	1	2	1		7
6	MW-108		1145	X		GW	N	2	1	1	2	1		7
7	Temp Blank													
8	MW-116	5/28/15	1400	X		GW	N	2	1	1	2	1		7
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 L Howard	5/28/15/1615	1:	5-28-15 1615
2:	5-28-15 5:06.	2: Amy Liles	5/28/15 5:06p
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL Atlanta
PROJECT #: 612208015.4
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): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be filtered by Lab
* Metals: Arsenic, Lead, Copper, Zinc

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:00:00 AM
Lab ID:	1505O78-001	**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	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 13:29	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 13:29	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 13:29	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 13:29	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 13:29	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 13:29	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 13:12	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Tetrachloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 13:12	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Trichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 13:29	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 13:29	GK
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	208137	1	06/02/2015 13:12	NP
Surr: 4-Bromofluorobenzene	95.1	70.6-123		%REC	208137	1	06/01/2015 13:29	GK
Surr: Dibromofluoromethane	92.5	78.7-124		%REC	208137	1	06/01/2015 13:29	GK
Surr: Dibromofluoromethane	95.5	78.7-124		%REC	208137	1	06/02/2015 13:12	NP
Surr: Toluene-d8	93.6	81.3-120		%REC	208137	1	06/01/2015 13:29	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-02
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:00:00 AM
Lab ID:	1505O78-001	**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	100	81.3-120		%REC	208137	1	06/02/2015 13:12	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-26
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:58:00 AM
Lab ID:	1505O78-002	**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	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 15:43	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 15:43	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 15:43	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 15:43	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 15:43	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 15:43	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 13:34	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Tetrachloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 13:34	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Trichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 15:43	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 15:43	GK
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	208137	1	06/02/2015 13:34	NP
Surr: 4-Bromofluorobenzene	96.7	70.6-123		%REC	208137	1	06/01/2015 15:43	GK
Surr: Dibromofluoromethane	98.2	78.7-124		%REC	208137	1	06/02/2015 13:34	NP
Surr: Dibromofluoromethane	98.5	78.7-124		%REC	208137	1	06/01/2015 15:43	GK
Surr: Toluene-d8	95.3	81.3-120		%REC	208137	1	06/01/2015 15:43	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-26
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:58:00 AM
Lab ID:	1505O78-002	**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	100	81.3-120		%REC	208137	1	06/02/2015 13:34	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/01/2015 20:50	JS
Copper	0.0102	0.00200		mg/L	208014	1	06/03/2015 00:41	JS
Lead	BRL	0.00100		mg/L	208014	1	06/01/2015 20:50	JS
Zinc	0.142	0.0100		mg/L	208014	1	06/03/2015 00:41	JS
ION SCAN SW9056A								
Nitrate	1.3	0.25		mg/L	R293050	1	05/29/2015 11:48	JW
Sulfate	230	10		mg/L	R293050	10	05/29/2015 13:31	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 07:56	JS
Copper	0.00970	0.00200		mg/L	208237	1	06/03/2015 07:56	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 07:56	JS
Zinc	0.136	0.0100		mg/L	208237	1	06/03/2015 07:56	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 14:53	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 14:53	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 14:53	SH
alpha-BHC	0.000061	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
beta-BHC	0.00043	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
delta-BHC	0.000074	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 14:53	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 14:53	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 14:53	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 14:53	SH
Surr: Decachlorobiphenyl	89.6	14.6-130		%REC	208061	1	06/01/2015 14:53	SH
Surr: Tetrachloro-m-xylene	71.3	14.4-116		%REC	208061	1	06/01/2015 14:53	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-112
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 1:52:00 PM
Lab ID:	1505O78-003	**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	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 16:31	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 16:31	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 16:31	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 16:31	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 16:31	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 16:31	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 14:20	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Tetrachloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 14:20	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Trichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 16:31	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 16:31	GK
Surr: 4-Bromofluorobenzene	94.6	70.6-123		%REC	208137	1	06/02/2015 14:20	NP
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	208137	1	06/01/2015 16:31	GK
Surr: Dibromofluoromethane	96.7	78.7-124		%REC	208137	1	06/02/2015 14:20	NP
Surr: Dibromofluoromethane	97.9	78.7-124		%REC	208137	1	06/01/2015 16:31	GK
Surr: Toluene-d8	94.6	81.3-120		%REC	208137	1	06/01/2015 16:31	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-112
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 1:52:00 PM
Lab ID:	1505O78-003	**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	99.6	81.3-120		%REC	208137	1	06/02/2015 14:20	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.00783	0.00500		mg/L	208014	1	06/01/2015 20:56	JS
Copper	0.0504	0.00200		mg/L	208014	1	06/03/2015 00:46	JS
Lead	BRL	0.00100		mg/L	208014	1	06/01/2015 20:56	JS
Zinc	2.13	0.0100		mg/L	208014	1	06/03/2015 00:46	JS
ION SCAN SW9056A								
Nitrate	1.5	0.25		mg/L	R293050	1	05/29/2015 12:03	JW
Sulfate	370	10		mg/L	R293050	10	05/29/2015 13:46	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.00969	0.00500		mg/L	208237	1	06/03/2015 08:01	JS
Copper	0.0455	0.00200		mg/L	208237	1	06/03/2015 08:01	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:01	JS
Zinc	2.09	0.0100		mg/L	208237	1	06/03/2015 08:01	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 15:12	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 15:12	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 15:12	SH
alpha-BHC	0.00078	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
beta-BHC	0.0068	0.00050		mg/L	208061	10	06/01/2015 22:18	SH
delta-BHC	0.00064	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 15:12	SH
gamma-BHC	0.00014	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 15:12	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 15:12	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 15:12	SH
Surr: Decachlorobiphenyl	82.2	14.6-130		%REC	208061	1	06/01/2015 15:12	SH
Surr: Tetrachloro-m-xylene	61.9	14.4-116		%REC	208061	1	06/01/2015 15:12	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 12:22:00 PM
Lab ID:	1505O78-004	**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	0.0099	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,1-Dichloroethene	0.0067	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 16:56	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 16:56	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 16:56	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 16:56	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 16:56	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 16:56	GK
cis-1,2-Dichloroethene	0.58	0.10		mg/L	208137	20	06/01/2015 17:20	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 14:43	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Naphthalene	0.048	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Tetrachloroethene	0.011	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 14:43	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Trichloroethene	1.9	0.10		mg/L	208137	20	06/01/2015 17:20	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Vinyl chloride	0.0050	0.0020		mg/L	208137	1	06/01/2015 16:56	GK
Xylenes, Total	0.0051	0.0050		mg/L	208137	1	06/01/2015 16:56	GK
Surr: 4-Bromofluorobenzene	95.5	70.6-123		%REC	208137	1	06/02/2015 14:43	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	208137	1	06/01/2015 16:56	GK
Surr: 4-Bromofluorobenzene	97.7	70.6-123		%REC	208137	20	06/01/2015 17:20	GK
Surr: Dibromofluoromethane	99.3	78.7-124		%REC	208137	1	06/02/2015 14:43	NP
Surr: Dibromofluoromethane	99.7	78.7-124		%REC	208137	1	06/01/2015 16:56	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 12:22:00 PM
Lab ID:	1505O78-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Surr: Dibromofluoromethane	99.1	78.7-124		%REC	208137	20	06/01/2015 17:20	GK
Surr: Toluene-d8	95.6	81.3-120		%REC	208137	1	06/01/2015 16:56	GK
Surr: Toluene-d8	99.9	81.3-120		%REC	208137	1	06/02/2015 14:43	NP
Surr: Toluene-d8	95.8	81.3-120		%REC	208137	20	06/01/2015 17:20	GK
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/01/2015 21:11	JS
Copper	0.00288	0.00200		mg/L	208014	1	06/03/2015 00:51	JS
Lead	0.00193	0.00100		mg/L	208014	1	06/03/2015 00:51	JS
Zinc	0.224	0.0100		mg/L	208014	1	06/03/2015 00:51	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293050	1	05/29/2015 12:17	JW
Sulfate	60	1.0		mg/L	R293050	1	05/29/2015 12:17	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:07	JS
Copper	BRL	0.00200		mg/L	208237	1	06/03/2015 08:07	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:07	JS
Zinc	0.202	0.0100		mg/L	208237	1	06/03/2015 08:07	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.0020	0.00010		mg/L	208061	1	06/01/2015 16:44	SH
4,4´-DDE	0.0019	0.00010		mg/L	208061	1	06/01/2015 16:44	SH
4,4´-DDT	0.0017	0.00010		mg/L	208061	1	06/01/2015 16:44	SH
alpha-BHC	0.00053	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
beta-BHC	0.0061	0.00050		mg/L	208061	10	06/01/2015 23:51	SH
delta-BHC	0.00056	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 16:44	SH
gamma-BHC	0.00033	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 16:44	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 16:44	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 16:44	SH
Surr: Decachlorobiphenyl	80.2	14.6-130		%REC	208061	1	06/01/2015 16:44	SH
Surr: Tetrachloro-m-xylene	48.8	14.4-116		%REC	208061	1	06/01/2015 16:44	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 2:12:00 PM
Lab ID:	1505O78-005	**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	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 17:44	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 17:44	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 17:44	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 17:44	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 17:44	GK
Chloroform	0.014	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 17:44	GK
cis-1,2-Dichloroethene	0.053	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 15:28	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Tetrachloroethene	0.0089	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 15:28	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Trichloroethene	0.051	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 17:44	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 17:44	GK
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	208137	1	06/01/2015 17:44	GK
Surr: 4-Bromofluorobenzene	97.2	70.6-123		%REC	208137	1	06/02/2015 15:28	NP
Surr: Dibromofluoromethane	98.1	78.7-124		%REC	208137	1	06/02/2015 15:28	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	208137	1	06/01/2015 17:44	GK
Surr: Toluene-d8	96.8	81.3-120		%REC	208137	1	06/01/2015 17:44	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 2:12:00 PM
Lab ID:	1505O78-005	**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	102	81.3-120		%REC	208137	1	06/02/2015 15:28	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/01/2015 21:16	JS
Copper	BRL	0.00200		mg/L	208014	1	06/03/2015 00:56	JS
Lead	BRL	0.00100		mg/L	208014	1	06/01/2015 21:16	JS
Zinc	BRL	0.0100		mg/L	208014	1	06/03/2015 00:56	JS
ION SCAN SW9056A								
Nitrate	4.3	0.25		mg/L	R293050	1	05/29/2015 12:32	JW
Sulfate	84	1.0		mg/L	R293050	1	05/29/2015 12:32	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:12	JS
Copper	BRL	0.00200		mg/L	208237	1	06/03/2015 08:12	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:12	JS
Zinc	BRL	0.0100		mg/L	208237	1	06/03/2015 08:12	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 17:03	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 17:03	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 17:03	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
beta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 17:03	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 17:03	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 17:03	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 17:03	SH
Surr: Decachlorobiphenyl	86.3	14.6-130		%REC	208061	1	06/01/2015 17:03	SH
Surr: Tetrachloro-m-xylene	73.8	14.4-116		%REC	208061	1	06/01/2015 17:03	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-108
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:45:00 AM
Lab ID:	1505O78-006	**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	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 18:08	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 18:08	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 18:08	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 18:08	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 18:08	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 18:08	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 15:51	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Tetrachloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 15:51	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Trichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 18:08	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 18:08	GK
Surr: 4-Bromofluorobenzene	94.4	70.6-123		%REC	208137	1	06/02/2015 15:51	NP
Surr: 4-Bromofluorobenzene	96.3	70.6-123		%REC	208137	1	06/01/2015 18:08	GK
Surr: Dibromofluoromethane	98.6	78.7-124		%REC	208137	1	06/02/2015 15:51	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208137	1	06/01/2015 18:08	GK
Surr: Toluene-d8	94.8	81.3-120		%REC	208137	1	06/01/2015 18:08	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-108
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 11:45:00 AM
Lab ID:	1505O78-006	**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	102	81.3-120		%REC	208137	1	06/02/2015 15:51	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/01/2015 21:21	JS
Copper	0.151	0.00200		mg/L	208014	1	06/03/2015 01:01	JS
Lead	BRL	0.00100		mg/L	208014	1	06/01/2015 21:21	JS
Zinc	2.02	0.0100		mg/L	208014	1	06/03/2015 01:01	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293050	1	05/29/2015 12:47	JW
Sulfate	260	10		mg/L	R293050	10	05/29/2015 14:00	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:17	JS
Copper	0.161	0.00200		mg/L	208237	1	06/03/2015 08:17	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:17	JS
Zinc	2.24	0.0100		mg/L	208237	1	06/03/2015 08:17	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.00010	0.00010		mg/L	208061	1	06/01/2015 17:22	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 17:22	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 17:22	SH
alpha-BHC	0.0063	0.00050		mg/L	208061	10	06/02/2015 00:28	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:22	SH
beta-BHC	0.0012	0.000050		mg/L	208061	1	06/01/2015 17:22	SH
delta-BHC	0.0037	0.00050		mg/L	208061	10	06/02/2015 00:28	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 17:22	SH
gamma-BHC	0.00046	0.000050		mg/L	208061	1	06/01/2015 17:22	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 17:22	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 17:22	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 17:22	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 17:22	SH
Surr: Decachlorobiphenyl	94.4	14.6-130		%REC	208061	1	06/01/2015 17:22	SH
Surr: Tetrachloro-m-xylene	84.9	14.4-116		%REC	208061	1	06/01/2015 17:22	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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-116
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 2:00:00 PM
Lab ID:	1505O78-007	**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	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
1,4-Dioxane	BRL	0.15		mg/L	208137	1	06/01/2015 18:33	GK
2-Butanone	BRL	0.050		mg/L	208137	1	06/01/2015 18:33	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208137	1	06/01/2015 18:33	GK
Acetone	BRL	0.050		mg/L	208137	1	06/01/2015 18:33	GK
Benzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Carbon disulfide	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Chlorobenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Chloroethane	BRL	0.010		mg/L	208137	1	06/01/2015 18:33	GK
Chloroform	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Chloromethane	BRL	0.010		mg/L	208137	1	06/01/2015 18:33	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Cyclohexane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Ethylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208137	1	06/02/2015 16:13	NP
Isopropylbenzene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Methylene chloride	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Naphthalene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Styrene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Tetrachloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Tetrahydrofuran	BRL	0.010		mg/L	208137	1	06/02/2015 16:13	NP
Toluene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Trichloroethene	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Vinyl chloride	BRL	0.0020		mg/L	208137	1	06/01/2015 18:33	GK
Xylenes, Total	BRL	0.0050		mg/L	208137	1	06/01/2015 18:33	GK
Surr: 4-Bromofluorobenzene	94	70.6-123		%REC	208137	1	06/02/2015 16:13	NP
Surr: 4-Bromofluorobenzene	98.1	70.6-123		%REC	208137	1	06/01/2015 18:33	GK
Surr: Dibromofluoromethane	96.2	78.7-124		%REC	208137	1	06/02/2015 16:13	NP
Surr: Dibromofluoromethane	99.5	78.7-124		%REC	208137	1	06/01/2015 18:33	GK
Surr: Toluene-d8	97.7	81.3-120		%REC	208137	1	06/01/2015 18:33	GK

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:** 4-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-116
Project Name:	BFEL-Atlanta	**Collection Date:**	5/28/2015 2:00:00 PM
Lab ID:	1505O78-007	**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	99.3	81.3-120		%REC	208137	1	06/02/2015 16:13	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208014	1	06/01/2015 21:27	JS
Copper	1.85	0.00200		mg/L	208014	1	06/03/2015 01:07	JS
Lead	0.00187	0.00100		mg/L	208014	1	06/01/2015 21:27	JS
Zinc	5.06	0.0100		mg/L	208014	1	06/03/2015 01:07	JS
ION SCAN SW9056A								
Nitrate	14	2.5		mg/L	R293050	10	05/29/2015 14:59	JW
Sulfate	500	10		mg/L	R293050	10	05/29/2015 14:59	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:22	JS
Copper	1.88	0.00200		mg/L	208237	1	06/03/2015 08:22	JS
Lead	0.00109	0.00100		mg/L	208237	1	06/03/2015 08:22	JS
Zinc	5.14	0.0100		mg/L	208237	1	06/03/2015 08:22	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208061	1	06/01/2015 13:58	SH
4,4´-DDE	BRL	0.00010		mg/L	208061	1	06/01/2015 13:58	SH
4,4´-DDT	BRL	0.00010		mg/L	208061	1	06/01/2015 13:58	SH
alpha-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
alpha-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
beta-BHC	0.00031	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
delta-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
Dieldrin	BRL	0.00010		mg/L	208061	1	06/01/2015 13:58	SH
gamma-BHC	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
gamma-Chlordane	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
Heptachlor	BRL	0.000050		mg/L	208061	1	06/01/2015 13:58	SH
Methoxychlor	BRL	0.00050		mg/L	208061	1	06/01/2015 13:58	SH
Toxaphene	BRL	0.0050		mg/L	208061	1	06/01/2015 13:58	SH
Surr: Decachlorobiphenyl	94.3	14.6-130		%REC	208061	1	06/01/2015 13:58	SH
Surr: Tetrachloro-m-xylene	74.6	14.4-116		%REC	208061	1	06/01/2015 13:58	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.

Sample/Cooler Receipt Checklist

Client AMEC/Kennesaw Work Order Number 1505048

Checklist completed by Tanya Delia 5/28/15
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 3.2 Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present?	Yes ✓	No __	
Chain of custody signed when relinquished and received?	Yes ✓	No __	
Chain of custody agrees with sample labels?	Yes ✓	No __	
Samples in proper container/bottle?	Yes ✓	No __	
Sample containers intact?	Yes ✓	No __	
Sufficient sample volume for indicated test?	Yes ✓	No __	
All samples received within holding time?	Yes ✓	No __	
Was TAT marked on the COC?	Yes __	No ✓	
Proceed with Standard TAT as per project history?	Yes ✓	No __	Not Applicable __
Water - VOA vials have zero headspace?	No VOA vials submitted __	Yes ✓	No __
Water - pH acceptable upon receipt?	Yes ✓	No __	Not Applicable __

Adjusted? _____ Checked by Tanya

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 4-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1505O78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505O78-001A	TB-02	5/28/2015 11:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-001A	TB-02	5/28/2015 11:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-002A	MW-26	5/28/2015 11:58:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-002A	MW-26	5/28/2015 11:58:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-002B	MW-26	5/28/2015 11:58:00AM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-002B	MW-26	5/28/2015 11:58:00AM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-002C	MW-26	5/28/2015 11:58:00AM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-002D	MW-26	5/28/2015 11:58:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505O78-002E	MW-26	5/28/2015 11:58:00AM	Groundwater	ION SCAN			05/29/2015
1505O78-003A	MW-112	5/28/2015 1:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-003A	MW-112	5/28/2015 1:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-003B	MW-112	5/28/2015 1:52:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-003B	MW-112	5/28/2015 1:52:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-003C	MW-112	5/28/2015 1:52:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-003D	MW-112	5/28/2015 1:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505O78-003E	MW-112	5/28/2015 1:52:00PM	Groundwater	ION SCAN			05/29/2015
1505O78-004A	TW-1	5/28/2015 12:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-004A	TW-1	5/28/2015 12:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-004B	TW-1	5/28/2015 12:22:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-004B	TW-1	5/28/2015 12:22:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-004C	TW-1	5/28/2015 12:22:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-004D	TW-1	5/28/2015 12:22:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505O78-004E	TW-1	5/28/2015 12:22:00PM	Groundwater	ION SCAN			05/29/2015
1505O78-005A	TW-2	5/28/2015 2:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-005A	TW-2	5/28/2015 2:12:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-005B	TW-2	5/28/2015 2:12:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-005B	TW-2	5/28/2015 2:12:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-005C	TW-2	5/28/2015 2:12:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-005D	TW-2	5/28/2015 2:12:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1505O78

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505O78-005E	TW-2	5/28/2015 2:12:00PM	Groundwater	ION SCAN			05/29/2015
1505O78-006A	MW-108	5/28/2015 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-006A	MW-108	5/28/2015 11:45:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-006B	MW-108	5/28/2015 11:45:00AM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-006B	MW-108	5/28/2015 11:45:00AM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-006C	MW-108	5/28/2015 11:45:00AM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-006D	MW-108	5/28/2015 11:45:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505O78-006D	MW-108	5/28/2015 11:45:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/02/2015
1505O78-006E	MW-108	5/28/2015 11:45:00AM	Groundwater	ION SCAN			05/29/2015
1505O78-007A	MW-116	5/28/2015 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/01/2015
1505O78-007A	MW-116	5/28/2015 2:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/1/2015 12:27:00 PM	06/02/2015
1505O78-007B	MW-116	5/28/2015 2:00:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/01/2015
1505O78-007B	MW-116	5/28/2015 2:00:00PM	Groundwater	Total Metals by ICP/MS		5/29/2015 1:22:00 PM	06/03/2015
1505O78-007C	MW-116	5/28/2015 2:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09 PM	06/03/2015
1505O78-007D	MW-116	5/28/2015 2:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		5/30/2015 2:00:00 PM	06/01/2015
1505O78-007E	MW-116	5/28/2015 2:00:00PM	Groundwater	ION SCAN			05/29/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208014

Sample ID: **MB-208014** Client ID: Units: **mg/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236170**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208014** Client ID: Units: **mg/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236169**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1033	0.00500	100.0		103	80	120				
Copper	0.1136	0.00200	100.0		114	80	120				
Lead	0.1008	0.00100	100.0		101	80	120				
Zinc	0.1090	0.0100	100.0		109	80	120				

Sample ID: **1505N78-002BMS** Client ID: Units: **mg/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236194**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09625	0.00500	100.0		96.3	75	125				
Copper	0.1087	0.00200	100.0	0.6470	108	75	125				
Lead	0.09641	0.00100	100.0		96.4	75	125				
Zinc	0.1056	0.0100	100.0		106	75	125				

Sample ID: **1505N78-002BMSD** Client ID: Units: **mg/L** Prep Date: **05/28/2015** Run No: **292850**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236195**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1033	0.00500	100.0		103	75	125	96.25	7.02	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208014

Sample ID: **1505N78-002BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **05/28/2015** Run No: **292850**
BatchID: **208014** Analysis Date: **05/29/2015** Seq No: **6236195**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1130	0.00200	100.0	0.6470	112	75	125	108.7	3.82	20	
Lead	0.1001	0.00100	100.0		100	75	125	96.41	3.77	20	
Zinc	0.1068	0.0100	100.0		107	75	125	105.6	1.05	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Sample ID: **MB-208061** Client ID: Units: **mg/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238301**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000412	0	0.5000		82.5	14.6	130				
Surr: Tetrachloro-m-xylene	0.000297	0	0.5000		59.4	14.4	116				

Sample ID: **LCS-208061** Client ID: Units: **mg/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238291**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000907	0.00010	1.000		90.7	52.5	140				
Dieldrin	0.000866	0.00010	1.000		86.7	59.5	137				
gamma-BHC	0.000834	0.000050	1.000		83.4	46	134				
Heptachlor	0.000832	0.000050	1.000		83.2	44.7	127				
Surr: Decachlorobiphenyl	0.000417	0	0.5000		83.4	14.6	130				
Surr: Tetrachloro-m-xylene	0.000310	0	0.5000		61.9	14.4	116				

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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208061

Sample ID: **1505O78-007DMS** Client ID: **MW-116** Units: **mg/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.000837	0.00010	1.000		83.7	36.3	142				
4,4´-DDE	0.000876	0.00010	1.000		87.6	29.8	138				
4,4´-DDT	0.000854	0.00010	1.000		85.4	27.1	146				
alpha-BHC	0.000801	0.000050	1.000		80.1	36.6	137				
beta-BHC	0.001105	0.000050	1.000	0.3087	79.6	40.6	144				
delta-BHC	0.000887	0.000050	1.000	0.004720	88.2	48.5	139				
Dieldrin	0.000850	0.00010	1.000	0.02482	82.6	39.4	142				
gamma-BHC	0.000798	0.000050	1.000		79.8	34.5	144				
Heptachlor	0.000781	0.000050	1.000		78.1	33	138				
Surr: Decachlorobiphenyl	0.000400	0	0.5000		80.0	14.6	130				
Surr: Tetrachloro-m-xylene	0.000325	0	0.5000		65.0	14.4	116				

Sample ID: **1505O78-007DMSD** Client ID: **MW-116** Units: **mg/L** Prep Date: **05/30/2015** Run No: **292963**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208061** Analysis Date: **06/01/2015** Seq No: **6238294**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.000976	0.00010	1.000		97.6	36.3	142	0.8374	15.3	21.9	
4,4´-DDE	0.000994	0.00010	1.000		99.4	29.8	138	0.8765	12.5	25.6	
4,4´-DDT	0.000988	0.00010	1.000		98.8	27.1	146	0.8544	14.5	21.2	
alpha-BHC	0.000900	0.000050	1.000		90.0	36.6	137	0.8014	11.6	27.1	
beta-BHC	0.001230	0.000050	1.000	0.3087	92.2	40.6	144	1.105	10.7	26.3	
delta-BHC	0.000990	0.000050	1.000	0.004720	98.5	48.5	139	0.8867	11.0	20	
Dieldrin	0.000970	0.00010	1.000	0.02482	94.5	39.4	142	0.8503	13.1	20	
gamma-BHC	0.000901	0.000050	1.000		90.1	34.5	144	0.7984	12.1	23.1	
Heptachlor	0.000882	0.000050	1.000		88.2	33	138	0.7807	12.1	26.9	
Surr: Decachlorobiphenyl	0.000438	0	0.5000		87.6	14.6	130	0.4000	0	0	
Surr: Tetrachloro-m-xylene	0.000357	0	0.5000		71.4	14.4	116	0.3249	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208137

Sample ID: **MB-208137** Client ID: Units: **mg/L** Prep Date: **06/01/2015** Run No: **292892**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208137** Analysis Date: **06/01/2015** Seq No: **6236820**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
1,4-Dioxane	BRL	0.15									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208137

Sample ID: **MB-208137**	Client ID:		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292892**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/01/2015**	Seq No: **6236820**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04698	0	50.00		94.0	70.6	123				
Surr: Dibromofluoromethane	0.04729	0	50.00		94.6	78.7	124				
Surr: Toluene-d8	0.04667	0	50.00		93.3	81.3	120				

Sample ID: **MB-208137**	Client ID:		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292950**
SampleType: **MBLK**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/02/2015**	Seq No: **6238186**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isobutyl Alcohol	BRL	0.20									
Tetrahydrofuran	BRL	0.010									
Surr: 4-Bromofluorobenzene	0.04539	0	50.00		90.8	70.6	123				
Surr: Dibromofluoromethane	0.05179	0	50.00		104	78.7	124				
Surr: Toluene-d8	0.05102	0	50.00		102	81.3	120				

Sample ID: **LCS-208137**	Client ID:		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292892**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/01/2015**	Seq No: **6236819**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04368	0.0050	50.00		87.4	64.2	137				
Benzene	0.04338	0.0050	50.00		86.8	72.8	128				
Chlorobenzene	0.04649	0.0050	50.00		93.0	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208137

Sample ID: **LCS-208137**	Client ID:		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292892**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/01/2015**	Seq No: **6236819**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.04480	0.0050	50.00		89.6	74.9	127				
Trichloroethene	0.04869	0.0050	50.00		97.4	70.5	134				
Surr: 4-Bromofluorobenzene	0.04801	0	50.00		96.0	70.6	123				
Surr: Dibromofluoromethane	0.04641	0	50.00		92.8	78.7	124				
Surr: Toluene-d8	0.04665	0	50.00		93.3	81.3	120				

Sample ID: **1505O78-002AMS**	Client ID: **MW-26**		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292892**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/01/2015**	Seq No: **6236851**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.04276	0.0050	50.00		85.5	60.5	156				
Benzene	0.04409	0.0050	50.00		88.2	70	135				
Chlorobenzene	0.04722	0.0050	50.00		94.4	70.5	132				
Toluene	0.04461	0.0050	50.00		89.2	70.5	137				
Trichloroethene	0.04756	0.0050	50.00		95.1	71.8	139				
Surr: 4-Bromofluorobenzene	0.04932	0	50.00		98.6	70.6	123				
Surr: Dibromofluoromethane	0.04845	0	50.00		96.9	78.7	124				
Surr: Toluene-d8	0.04732	0	50.00		94.6	81.3	120				

Sample ID: **1505O78-002AMSD**	Client ID: **MW-26**		Units: **mg/L**	Prep Date: **06/01/2015**	Run No: **292892**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208137**	Analysis Date: **06/01/2015**	Seq No: **6236959**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.03782	0.0050	50.00		75.6	60.5	156	42.76	12.3	20	
Benzene	0.04244	0.0050	50.00		84.9	70	135	44.09	3.81	20	
Chlorobenzene	0.04528	0.0050	50.00		90.6	70.5	132	47.22	4.19	20	
Toluene	0.04349	0.0050	50.00		87.0	70.5	137	44.61	2.54	20	
Trichloroethene	0.04610	0.0050	50.00		92.2	71.8	139	47.56	3.12	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208137

Sample ID: **1505O78-002AMSD** Client ID: **MW-26** Units: **mg/L** Prep Date: **06/01/2015** Run No: **292892**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208137** Analysis Date: **06/01/2015** Seq No: **6236959**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	0.04826	0	50.00		96.5	70.6	123	49.32	0	0	
Surr: Dibromofluoromethane	0.04941	0	50.00		98.8	78.7	124	48.45	0	0	
Surr: Toluene-d8	0.04767	0	50.00		95.3	81.3	120	47.32	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **MB-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09782	0.00500	100.0		97.8	80	120				
Copper	0.09755	0.00200	100.0		97.5	80	120				
Lead	0.09706	0.00100	100.0		97.1	80	120				
Zinc	0.09521	0.0100	100.0		95.2	80	120				

Sample ID: **1505N78-004CMS** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09767	0.00500	100.0		97.7	75	125				
Copper	0.09620	0.00200	100.0	4.126	92.1	75	125				
Lead	0.09244	0.00100	100.0		92.4	75	125				
Zinc	0.1148	0.0100	100.0	23.80	91.0	75	125				

Sample ID: **1505N78-004CMSD** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1015	0.00500	100.0		101	75	125	97.67	3.80	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **1505N78-004CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1011	0.00200	100.0	4.126	96.9	75	125	96.20	4.94	20	
Lead	0.09549	0.00100	100.0		95.5	75	125	92.44	3.24	20	
Zinc	0.1192	0.0100	100.0	23.80	95.4	75	125	114.8	3.74	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: R293050

Sample ID: **MB-R293050** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240646**

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-R293050** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.799	0.25	5.000		96.0	90	110				
Sulfate	24.47	1.0	25.00		97.9	90	110				

Sample ID: **1505P11-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.861	0.25	5.000	2.093	95.3	90	110				
Sulfate	23.24	1.0	25.00		93.0	90	110				

Sample ID: **1505P31-001BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240672**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	71.82	2.5	50.00	24.27	95.1	90	110				
Sulfate	264.5	10	250.0	31.82	93.1	90	110				

Sample ID: **1505P11-001AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240671**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.888	0.25	5.000	2.093	95.9	90	110	6.861	0.403	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: 1505O78

ANALYTICAL QC SUMMARY REPORT

BatchID: R293050

Sample ID: **1505P11-001AMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **293050**
BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240671**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	23.19	1.0	25.00		92.8	90	110	23.24	0.229	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.

June 08, 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: 1505Q16

Analytical Environmental Services, Inc. received 4 samples on 5/29/2015 2:55:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 1505Q16

Date: 5/29/15 Page 1 of 1

COMPANY: Amec Foster Wheeler E+I

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

PHONE: 770-421-3516

FAX: 770-421-3486

SAMPLED BY: D Howard, M Andrews, E Guillen

SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	VOCs list	Tot metals list	Diss metals list	Pest	Nitrates/Sulfate	No # of Containers	REMARKS
1	TB-03	5/29/15	1100	G		W	H						2	
2	MW-22		1250	G		GW	H	1	1	2	1		7	
3	TW-4		1318	G		GW	H	1	1	2	1		7	
4	MW-110		1330	G		GW	H	1	1	2	1		7	
5	Temp Blank													
6														
7														
8														
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 Howard 5/29/15/1432
2: 5-29-15 1455
3:

RECEIVED BY / DATE/TIME
1: 5-29-15 1482
2: 5/29/15 2:55PM
3:

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

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

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by lab
* Metals list: Arsenic, lead Cooper, Zinc

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:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-03
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 11:00:00 AM
Lab ID:	1505Q16-001	**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	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/02/2015 22:32	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/02/2015 22:32	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/02/2015 22:32	GK
Acetone	BRL	0.050		mg/L	208243	1	06/02/2015 22:32	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:32	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:32	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 11:18	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 11:18	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/02/2015 22:32	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/02/2015 22:32	GK
Surr: 4-Bromofluorobenzene	91.7	70.6-123		%REC	208243	1	06/04/2015 11:18	NP
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	208243	1	06/02/2015 22:32	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208243	1	06/04/2015 11:18	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	208243	1	06/02/2015 22:32	GK
Surr: Toluene-d8	96.8	81.3-120		%REC	208243	1	06/02/2015 22:32	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-03
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 11:00:00 AM
Lab ID:	1505Q16-001	**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	103	81.3-120		%REC	208243	1	06/04/2015 11:18	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-22
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 12:50:00 PM
Lab ID:	1505Q16-002	**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	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/02/2015 22:56	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/02/2015 22:56	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/02/2015 22:56	GK
Acetone	BRL	0.050		mg/L	208243	1	06/02/2015 22:56	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:56	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:56	GK
cis-1,2-Dichloroethene	0.010	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 11:41	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 11:41	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/02/2015 22:56	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/02/2015 22:56	GK
Surr: 4-Bromofluorobenzene	92.1	70.6-123		%REC	208243	1	06/04/2015 11:41	NP
Surr: 4-Bromofluorobenzene	99.1	70.6-123		%REC	208243	1	06/02/2015 22:56	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208243	1	06/04/2015 11:41	NP
Surr: Dibromofluoromethane	112	78.7-124		%REC	208243	1	06/02/2015 22:56	GK
Surr: Toluene-d8	98.2	81.3-120		%REC	208243	1	06/02/2015 22:56	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-22
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 12:50:00 PM
Lab ID:	1505Q16-002	**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	103	81.3-120		%REC	208243	1	06/04/2015 11:41	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208291	1	06/05/2015 01:08	JS
Copper	1.56	0.00200		mg/L	208291	1	06/05/2015 01:08	JS
Lead	0.00235	0.00100		mg/L	208291	1	06/05/2015 01:08	JS
Zinc	4.15	0.0100		mg/L	208291	1	06/05/2015 01:08	JS
ION SCAN SW9056A								
Nitrate	2.1	0.25		mg/L	R293050	1	05/29/2015 20:42	JW
Sulfate	390	10		mg/L	R293050	10	05/29/2015 21:26	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:27	JS
Copper	1.46	0.00200		mg/L	208237	1	06/03/2015 08:27	JS
Lead	0.00190	0.00100		mg/L	208237	1	06/03/2015 08:27	JS
Zinc	3.92	0.0100		mg/L	208237	1	06/03/2015 08:27	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 18:38	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 18:38	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 18:38	SH
alpha-BHC	0.00014	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
beta-BHC	0.00055	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
delta-BHC	0.000057	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 18:38	SH
gamma-BHC	0.00013	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 18:38	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 18:38	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 18:38	SH
Surr: Decachlorobiphenyl	82	14.6-130		%REC	208299	1	06/04/2015 18:38	SH
Surr: Tetrachloro-m-xylene	69.5	14.4-116		%REC	208299	1	06/04/2015 18:38	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:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-4
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 1:18:00 PM
Lab ID:	1505Q16-003	**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	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/02/2015 23:21	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/02/2015 23:21	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/02/2015 23:21	GK
Acetone	BRL	0.050		mg/L	208243	1	06/02/2015 23:21	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/02/2015 23:21	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/02/2015 23:21	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 12:03	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 12:03	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/02/2015 23:21	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/02/2015 23:21	GK
Surr: 4-Bromofluorobenzene	91.9	70.6-123		%REC	208243	1	06/04/2015 12:03	NP
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	208243	1	06/02/2015 23:21	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208243	1	06/04/2015 12:03	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	208243	1	06/02/2015 23:21	GK
Surr: Toluene-d8	99.9	81.3-120		%REC	208243	1	06/02/2015 23:21	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-4
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 1:18:00 PM
Lab ID:	1505Q16-003	**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	100	81.3-120		%REC	208243	1	06/04/2015 12:03	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208291	1	06/05/2015 01:14	JS
Copper	0.149	0.00200		mg/L	208291	1	06/05/2015 01:14	JS
Lead	0.00349	0.00100		mg/L	208291	1	06/05/2015 01:14	JS
Zinc	0.793	0.0100		mg/L	208291	1	06/05/2015 01:14	JS
ION SCAN SW9056A								
Nitrate	0.82	0.25		mg/L	R293050	1	05/29/2015 20:56	JW
Sulfate	140	10		mg/L	R293050	10	05/29/2015 21:41	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:33	JS
Copper	0.145	0.00200		mg/L	208237	1	06/03/2015 08:33	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:33	JS
Zinc	0.752	0.0100		mg/L	208237	1	06/03/2015 08:33	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 18:57	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 18:57	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 18:57	SH
alpha-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
beta-BHC	0.0094	0.00050		mg/L	208299	10	06/04/2015 21:43	SH
delta-BHC	0.00021	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
Dieldrin	0.00013	0.00010		mg/L	208299	1	06/04/2015 18:57	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 18:57	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 18:57	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 18:57	SH
Surr: Decachlorobiphenyl	79.1	14.6-130		%REC	208299	1	06/04/2015 18:57	SH
Surr: Tetrachloro-m-xylene	39.8	14.4-116		%REC	208299	1	06/04/2015 18:57	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:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-110
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 1:30:00 PM
Lab ID:	1505Q16-004	**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	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/02/2015 23:45	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/02/2015 23:45	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/02/2015 23:45	GK
Acetone	BRL	0.050		mg/L	208243	1	06/02/2015 23:45	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/02/2015 23:45	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/02/2015 23:45	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 12:26	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 12:26	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/02/2015 23:45	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/02/2015 23:45	GK
Surr: 4-Bromofluorobenzene	92.3	70.6-123		%REC	208243	1	06/04/2015 12:26	NP
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	208243	1	06/02/2015 23:45	GK
Surr: Dibromofluoromethane	104	78.7-124		%REC	208243	1	06/04/2015 12:26	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	208243	1	06/02/2015 23:45	GK
Surr: Toluene-d8	97.9	81.3-120		%REC	208243	1	06/02/2015 23:45	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 8-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-110
Project Name:	BFEL-Atlanta	**Collection Date:**	5/29/2015 1:30:00 PM
Lab ID:	1505Q16-004	**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	101	81.3-120		%REC	208243	1	06/04/2015 12:26	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208291	1	06/05/2015 01:29	JS
Copper	0.357	0.00200		mg/L	208291	1	06/05/2015 01:29	JS
Lead	BRL	0.00100		mg/L	208291	1	06/05/2015 01:29	JS
Zinc	5.09	0.0100		mg/L	208291	1	06/05/2015 01:29	JS
ION SCAN SW9056A								
Nitrate	3.9	0.25		mg/L	R293050	1	05/29/2015 21:11	JW
Sulfate	320	10		mg/L	R293050	10	05/29/2015 21:55	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:48	JS
Copper	0.350	0.00200		mg/L	208237	1	06/03/2015 08:48	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:48	JS
Zinc	4.81	0.0100		mg/L	208237	1	06/03/2015 08:48	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 19:15	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 19:15	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 19:15	SH
alpha-BHC	0.00076	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
beta-BHC	0.00032	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
delta-BHC	0.0015	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 19:15	SH
gamma-BHC	0.00086	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 19:15	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 19:15	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 19:15	SH
Surr: Decachlorobiphenyl	80.2	14.6-130		%REC	208299	1	06/04/2015 19:15	SH
Surr: Tetrachloro-m-xylene	84.2	14.4-116		%REC	208299	1	06/04/2015 19:15	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 Work Order Number 1505016

Checklist completed by _____ 5/29/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 8-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1505Q16

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1505Q16-001A	TB-03	5/29/2015 11:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/02/2015
1505Q16-001A	TB-03	5/29/2015 11:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1505Q16-002A	MW-22	5/29/2015 12:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/02/2015
1505Q16-002A	MW-22	5/29/2015 12:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1505Q16-002B	MW-22	5/29/2015 12:50:00PM	Groundwater	Total Metals by ICP/MS		6/3/2015 1:00:00PM	06/05/2015
1505Q16-002C	MW-22	5/29/2015 12:50:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:40:09PM	06/03/2015
1505Q16-002D	MW-22	5/29/2015 12:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1505Q16-002E	MW-22	5/29/2015 12:50:00PM	Groundwater	ION SCAN			05/29/2015
1505Q16-003A	TW-4	5/29/2015 1:18:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/02/2015
1505Q16-003A	TW-4	5/29/2015 1:18:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1505Q16-003B	TW-4	5/29/2015 1:18:00PM	Groundwater	Total Metals by ICP/MS		6/3/2015 1:00:00PM	06/05/2015
1505Q16-003C	TW-4	5/29/2015 1:18:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1505Q16-003D	TW-4	5/29/2015 1:18:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1505Q16-003E	TW-4	5/29/2015 1:18:00PM	Groundwater	ION SCAN			05/29/2015
1505Q16-004A	MW-110	5/29/2015 1:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/02/2015
1505Q16-004A	MW-110	5/29/2015 1:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1505Q16-004B	MW-110	5/29/2015 1:30:00PM	Groundwater	Total Metals by ICP/MS		6/3/2015 1:00:00PM	06/05/2015
1505Q16-004C	MW-110	5/29/2015 1:30:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1505Q16-004D	MW-110	5/29/2015 1:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1505Q16-004E	MW-110	5/29/2015 1:30:00PM	Groundwater	ION SCAN			05/29/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **MB-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09782	0.00500	100.0		97.8	80	120				
Copper	0.09755	0.00200	100.0		97.5	80	120				
Lead	0.09706	0.00100	100.0		97.1	80	120				
Zinc	0.09521	0.0100	100.0		95.2	80	120				

Sample ID: **1505N78-004CMS** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09767	0.00500	100.0		97.7	75	125				
Copper	0.09620	0.00200	100.0	4.126	92.1	75	125				
Lead	0.09244	0.00100	100.0		92.4	75	125				
Zinc	0.1148	0.0100	100.0	23.80	91.0	75	125				

Sample ID: **1505N78-004CMSD** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1015	0.00500	100.0		101	75	125	97.67	3.80	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **1505N78-004CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1011	0.00200	100.0	4.126	96.9	75	125	96.20	4.94	20	
Lead	0.09549	0.00100	100.0		95.5	75	125	92.44	3.24	20	
Zinc	0.1192	0.0100	100.0	23.80	95.4	75	125	114.8	3.74	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292995**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.15									
Surr: 4-Bromofluorobenzene	0.04993	0	50.00		99.9	70.6	123				
Surr: Dibromofluoromethane	0.05287	0	50.00		106	78.7	124				
Surr: Toluene-d8	0.04803	0	50.00		96.1	81.3	120				

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	BRL	0.0050									
1,1,1-Trichloroethane	BRL	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,3-Trichlorobenzene	BRL	0.0050									
1,2,3-Trichloropropane	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2,4-Trimethylbenzene	BRL	0.0050									
1,2-Dibromo-3-chloropropane	BRL	0.0050									
1,2-Dibromoethane	BRL	0.0050									
1,2-Dichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloroethene, Total	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
1,3,5-Trimethylbenzene	BRL	0.0050									
1,3-Dichlorobenzene	BRL	0.0050									

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,3-Dichloropropane	BRL	0.0050									
1,4-Dichlorobenzene	BRL	0.0050									
2,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
2-Chloroethyl vinyl ether	BRL	0.0050									
2-Chlorotoluene	BRL	0.0050									
2-Hexanone	BRL	0.010									
4-Chlorotoluene	BRL	0.0050									
4-Isopropyltoluene	BRL	0.0050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Acrolein	BRL	0.020									
Acrylonitrile	BRL	0.0050									
Benzene	BRL	0.0050									
Bromobenzene	BRL	0.0050									
Bromochloromethane	BRL	0.0050									
Bromodichloromethane	BRL	0.0050									
Bromoform	BRL	0.0050									
Bromomethane	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
cis-1,3-Dichloropropene	BRL	0.0050									

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyclohexane	BRL	0.0050									
Dibromochloromethane	BRL	0.0050									
Dibromomethane	BRL	0.0050									
Dichlorodifluoromethane	BRL	0.010									
Ethanol	BRL	0.10									
Ethyl acetate	BRL	0.050									
Ethylbenzene	BRL	0.0050									
Freon-113	BRL	0.010									
Hexachlorobutadiene	BRL	0.0050									
Iodomethane	BRL	0.010									
iso-Butyraldehyde	BRL	0.010									
Isobutyl Alcohol	BRL	0.20									
Isopropyl acetate	BRL	0.010									
Isopropyl alcohol	BRL	0.10									
Isopropyl ether	BRL	0.010									
Isopropylbenzene	BRL	0.0050									
m,p-Xylene	BRL	0.0050									
Methyl acetate	BRL	0.0050									
Methyl formate	BRL	0.10									
Methyl tert-butyl ether	BRL	0.0050									
Methylcyclohexane	BRL	0.0050									
Methylene chloride	BRL	0.0050									
n-Amyl acetate	BRL	0.010									
n-Butyl acetate	BRL	0.010									
n-Butylbenzene	BRL	0.0050									
n-Heptane	BRL	0.010									N
n-Hexane	BRL	0.010									

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
n-Propylbenzene	BRL	0.0050									
Naphthalene	BRL	0.0050									
o-Xylene	BRL	0.0050									
sec-Butylbenzene	BRL	0.0050									
Styrene	BRL	0.0050									
tert-Butylbenzene	BRL	0.0050									
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
trans-1,3-Dichloropropene	BRL	0.0050									
trans-1,4-Dichloro-2-butene	BRL	0.010									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl acetate	BRL	0.010									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04467	0	50.00		89.3	70.6	123				
Surr: Dibromofluoromethane	0.05239	0	50.00		105	78.7	124				
Surr: Toluene-d8	0.04703	0	50.00		94.1	81.3	120				

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/04/2015** Seq No: **6244054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isobutyl Alcohol	BRL	0.20									
Tetrahydrofuran	BRL	0.010									
Surr: 4-Bromofluorobenzene	0.04589	0	50.00		91.8	70.6	123				

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/04/2015** Seq No: **6244054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Dibromofluoromethane	0.05203	0	50.00		104	78.7	124				
Surr: Toluene-d8	0.05051	0	50.00		101	81.3	120				

Sample ID: **LCS-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05475	0.0050	50.00		110	64.2	137				
Benzene	0.04934	0.0050	50.00		98.7	72.8	128				
Chlorobenzene	0.05129	0.0050	50.00		103	72.3	126				
Toluene	0.04901	0.0050	50.00		98.0	74.9	127				
Trichloroethene	0.04818	0.0050	50.00		96.4	70.5	134				
Surr: 4-Bromofluorobenzene	0.04508	0	50.00		90.2	70.6	123				
Surr: Dibromofluoromethane	0.05032	0	50.00		101	78.7	124				
Surr: Toluene-d8	0.04685	0	50.00		93.7	81.3	120				

Sample ID: **1505Q12-001AMS** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293072**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/03/2015** Seq No: **6241323**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	525.1	50	500000		105	60.5	156				
Benzene	473.4	50	500000		94.7	70	135				
Chlorobenzene	500.4	50	500000		100	70.5	132				
Toluene	576.9	50	500000	117200	91.9	70.5	137				
Trichloroethene	463.2	50	500000		92.6	71.8	139				
Surr: 4-Bromofluorobenzene	444.8	0	500000		89.0	70.6	123				
Surr: Dibromofluoromethane	493.6	0	500000		98.7	78.7	124				
Surr: Toluene-d8	464.5	0	500000		92.9	81.3	120				

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **1505Q12-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **mg/L** Prep Date: **06/02/2015** Run No: **293072**
BatchID: **208243** Analysis Date: **06/03/2015** Seq No: **6241324**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	521.9	50	500000		104	60.5	156	525100	0.611	20	
Benzene	472.7	50	500000		94.5	70	135	473400	0.148	20	
Chlorobenzene	483.3	50	500000		96.7	70.5	132	500400	3.48	20	
Toluene	583.1	50	500000	117200	93.2	70.5	137	576900	1.07	20	
Trichloroethene	467.8	50	500000		93.6	71.8	139	463200	0.988	20	
Surr: 4-Bromofluorobenzene	454.6	0	500000		90.9	70.6	123	444800	0	0	
Surr: Dibromofluoromethane	501.1	0	500000		100	78.7	124	493600	0	0	
Surr: Toluene-d8	472.5	0	500000		94.5	81.3	120	464500	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208291

Sample ID: **MB-208291** Client ID: Units: **mg/L** Prep Date: **06/03/2015** Run No: **293237**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208291** Analysis Date: **06/05/2015** Seq No: **6245769**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208291** Client ID: Units: **mg/L** Prep Date: **06/03/2015** Run No: **293237**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208291** Analysis Date: **06/05/2015** Seq No: **6245768**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1045	0.00500	100.0		105	80	120				
Copper	0.09885	0.00200	100.0		98.9	80	120				
Lead	0.1035	0.00100	100.0		104	80	120				
Zinc	0.09938	0.0100	100.0		99.4	80	120				

Sample ID: **1505P38-001AMS** Client ID: Units: **mg/L** Prep Date: **06/03/2015** Run No: **293237**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208291** Analysis Date: **06/05/2015** Seq No: **6245771**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1004	0.00500	100.0	0.8096	99.6	75	125				
Copper	0.08771	0.00200	100.0	3.189	84.5	75	125				
Lead	0.08053	0.00100	100.0	0.9674	79.6	75	125				
Zinc	0.3871	0.0100	100.0	316.4	70.7	75	125				S

Sample ID: **1505P38-001AMSD** Client ID: Units: **mg/L** Prep Date: **06/03/2015** Run No: **293237**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208291** Analysis Date: **06/05/2015** Seq No: **6245772**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09752	0.00500	100.0	0.8096	96.7	75	125	100.4	2.92	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208291

Sample ID: **1505P38-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/03/2015** Run No: **293237**
BatchID: **208291** Analysis Date: **06/05/2015** Seq No: **6245772**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.08431	0.00200	100.0	3.189	81.1	75	125	87.71	3.96	20	
Lead	0.07894	0.00100	100.0	0.9674	78.0	75	125	80.53	2.00	20	
Zinc	0.3678	0.0100	100.0	316.4	51.4	75	125	387.1	5.11	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **MB-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246871**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
Aldrin	BRL	0.000050									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
Endosulfan I	BRL	0.000050									
Endosulfan II	BRL	0.00010									
Endosulfan sulfate	BRL	0.00010									
Endrin	BRL	0.00010									
Endrin aldehyde	BRL	0.00010									
Endrin ketone	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Heptachlor epoxide	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000394	0	0.5000		78.7	14.6	130				
Surr: Tetrachloro-m-xylene	0.000300	0	0.5000		60.1	14.4	116				

Sample ID: **LCS-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **LCS-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000866	0.00010	1.000		86.6	52.5	140				
Aldrin	0.000907	0.000050	1.000		90.7	43	123				
Dieldrin	0.000905	0.00010	1.000		90.5	59.5	137				
Endrin	0.000871	0.00010	1.000		87.1	53.2	139				
gamma-BHC	0.000854	0.000050	1.000		85.4	46	134				
Heptachlor	0.000817	0.000050	1.000		81.7	44.7	127				
Surr: Decachlorobiphenyl	0.000413	0	0.5000		82.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000308	0	0.5000		61.7	14.4	116				

Sample ID: **1506270-003CMS** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246887**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000931	0.00010	1.000		93.1	27.1	146				
Aldrin	0.000956	0.000050	1.000		95.6	30.6	123				
Dieldrin	0.000992	0.00010	1.000		99.2	39.4	142				
Endrin	0.000971	0.00010	1.000		97.1	45.3	142				
gamma-BHC	0.000866	0.000050	1.000		86.6	34.5	144				
Heptachlor	0.000827	0.000050	1.000		82.7	33	138				
Surr: Decachlorobiphenyl	0.000441	0	0.5000		88.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.000343	0	0.5000		68.6	14.4	116				

Sample ID: **1506270-003CMSD** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246888**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000876	0.00010	1.000		87.6	27.1	146	0.9312	6.13	21.2	
Aldrin	0.000923	0.000050	1.000		92.3	30.6	123	0.9565	3.56	22.9	

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **1506270-003CMSD** Client ID:
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**
Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246888**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dieldrin	0.000923	0.00010	1.000		92.3	39.4	142	0.9921	7.22	20	
Endrin	0.000906	0.00010	1.000		90.7	45.3	142	0.9711	6.88	21.7	
gamma-BHC	0.000839	0.000050	1.000		83.9	34.5	144	0.8659	3.18	23.1	
Heptachlor	0.000805	0.000050	1.000		80.5	33	138	0.8267	2.66	26.9	
Surr: Decachlorobiphenyl	0.000428	0	0.5000		85.6	14.6	130	0.4412	0	0	
Surr: Tetrachloro-m-xylene	0.000358	0	0.5000		71.6	14.4	116	0.3429	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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: R293050

Sample ID: **MB-R293050** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240646**

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

Sample ID: **LCS-R293050** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	10.34	1.0	10.00		103	90	110				
Nitrate	4.799	0.25	5.000		96.0	90	110				
Sulfate	24.47	1.0	25.00		97.9	90	110				

Sample ID: **1505P11-001AMS** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.44	1.0	10.00	3.079	93.7	90	110				
Nitrate	6.861	0.25	5.000	2.093	95.3	90	110				
Sulfate	23.24	1.0	25.00		93.0	90	110				

Sample ID: **1505P31-001BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293050**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240672**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	141.4	10	100.0	49.19	92.2	90	110				
Nitrate	71.82	2.5	50.00	24.27	95.1	90	110				
Sulfate	264.5	10	250.0	31.82	93.1	90	110				

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: 1505Q16

ANALYTICAL QC SUMMARY REPORT

BatchID: R293050

Sample ID: **1505P11-001AMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **293050**
BatchID: **R293050** Analysis Date: **05/29/2015** Seq No: **6240671**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloride	12.45	1.0	10.00	3.079	93.7	90	110	12.44	0.069	20	
Nitrate	6.888	0.25	5.000	2.093	95.9	90	110	6.861	0.403	20	
Sulfate	23.19	1.0	25.00		92.8	90	110	23.24	0.229	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.

June 10, 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: 1506138

Analytical Environmental Services, Inc. received 7 samples on 6/1/2015 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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

2 coolers

Work Order: 1506138

Date: 6/1/15 Page ____ of ____

COMPANY: Amec Foster Wheeler E+I	ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3516	FAX: 770-421-3486
SAMPLED BY: DHoward, MAndrews, EGuillen	SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC list	T+T Metals list	Diss Metals list	Pest	Nitrates w/ Hold	PRESERVATION (See codes)	REMARKS	No # of Containers
1	TB-04	6/1/15	1000	X		W	2					H+I		2
2	MW-104A		1238	X		GW	2	1	1	2	1	N		7
3	MW-115		1508	X		GW	2	1	1	2	1	I		7
4	TW-6		1118	X		GW	2	1	1	2	1	I		7
5	TW-5		1335	X		GW	2	1	1	2	1	I		7
6	MW-105		1300	X		GW	2	1	1	2	1	I		7
7	MW-107D		1550	X		GW	2	1	1	2	1	I		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	RECEIVED BY	DATE/TIME
1: Daniel L Howard	6/1/15/1613	1:	6/1/15 1613
2:	6-1-15 1646	2: Mandy	6/1/15 4:46
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
*Dissolved metals will be filtered by lab
* Metals list: Arsenic, lead Copper, Zinc

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other ____

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

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Cooler #1 - 3.1 °C ; Cooler # 2 - 3.9 °C

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL Atlanta
Lab ID: 1506138

Case Narrative

Per Mark Andrews 6/2/2015, sample "MW-105" did not require VOC analysis.

Analytical Environmental Services, Inc **Date:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-04
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 10:00:00 AM
Lab ID:	1506138-001	**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	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/02/2015 22:08	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/02/2015 22:08	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/02/2015 22:08	GK
Acetone	BRL	0.050		mg/L	208243	1	06/02/2015 22:08	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:08	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/02/2015 22:08	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 16:48	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 16:48	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/02/2015 22:08	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/02/2015 22:08	GK
Surr: 4-Bromofluorobenzene	90.8	70.6-123		%REC	208243	1	06/04/2015 16:48	NP
Surr: 4-Bromofluorobenzene	103	70.6-123		%REC	208243	1	06/02/2015 22:08	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208243	1	06/04/2015 16:48	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	208243	1	06/02/2015 22:08	GK
Surr: Toluene-d8	98.9	81.3-120		%REC	208243	1	06/02/2015 22:08	GK

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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-04
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 10:00:00 AM
Lab ID:	1506138-001	**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	105	81.3-120		%REC	208243	1	06/04/2015 16:48	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104A
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 12:38:00 PM
Lab ID:	1506138-002	**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	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/03/2015 00:09	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/03/2015 00:09	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/03/2015 00:09	GK
Acetone	BRL	0.050		mg/L	208243	1	06/03/2015 00:09	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:09	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:09	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 17:11	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 17:11	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/03/2015 00:09	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/03/2015 00:09	GK
Surr: 4-Bromofluorobenzene	92.6	70.6-123		%REC	208243	1	06/04/2015 17:11	NP
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	208243	1	06/03/2015 00:09	GK
Surr: Dibromofluoromethane	104	78.7-124		%REC	208243	1	06/04/2015 17:11	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	208243	1	06/03/2015 00:09	GK
Surr: Toluene-d8	98.3	81.3-120		%REC	208243	1	06/03/2015 00:09	GK

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- 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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104A
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 12:38:00 PM
Lab ID:	1506138-002	**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	99.5	81.3-120		%REC	208243	1	06/04/2015 17:11	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208179	1	06/05/2015 12:40	JS
Copper	BRL	0.00200		mg/L	208179	1	06/05/2015 12:40	JS
Lead	BRL	0.00100		mg/L	208179	1	06/05/2015 12:40	JS
Zinc	0.0109	0.0100		mg/L	208179	1	06/05/2015 12:40	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293296	1	06/02/2015 09:54	JW
Sulfate	85	1.0		mg/L	R293296	1	06/02/2015 09:54	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:53	JS
Copper	BRL	0.00200		mg/L	208237	1	06/03/2015 08:53	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 08:53	JS
Zinc	BRL	0.0100		mg/L	208237	1	06/03/2015 08:53	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 19:52	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 19:52	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 19:52	SH
alpha-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
beta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
delta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 19:52	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 19:52	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 19:52	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 19:52	SH
Surr: Decachlorobiphenyl	80.4	14.6-130		%REC	208299	1	06/04/2015 19:52	SH
Surr: Tetrachloro-m-xylene	66.9	14.4-116		%REC	208299	1	06/04/2015 19:52	SH

Qualifiers:

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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-115
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 3:08:00 PM
Lab ID:	1506138-003	**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	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/03/2015 00:33	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/03/2015 00:33	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/03/2015 00:33	GK
Acetone	BRL	0.050		mg/L	208243	1	06/03/2015 00:33	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:33	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:33	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 17:33	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 17:33	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/03/2015 00:33	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/03/2015 00:33	GK
Surr: 4-Bromofluorobenzene	91.7	70.6-123		%REC	208243	1	06/04/2015 17:33	NP
Surr: 4-Bromofluorobenzene	98.6	70.6-123		%REC	208243	1	06/03/2015 00:33	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208243	1	06/04/2015 17:33	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208243	1	06/03/2015 00:33	GK
Surr: Toluene-d8	94.5	81.3-120		%REC	208243	1	06/03/2015 00:33	GK

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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-115
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 3:08:00 PM
Lab ID:	1506138-003	**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	101	81.3-120		%REC	208243	1	06/04/2015 17:33	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208179	1	06/05/2015 12:45	JS
Copper	5.11	0.00200		mg/L	208179	1	06/05/2015 12:45	JS
Lead	0.00205	0.00100		mg/L	208179	1	06/05/2015 12:45	JS
Zinc	11.4	0.0200		mg/L	208179	2	06/08/2015 20:54	JS
ION SCAN SW9056A								
Nitrate	1.3	0.25		mg/L	R293296	1	06/02/2015 10:08	JW
Sulfate	780	10		mg/L	R293296	10	06/02/2015 11:41	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 08:59	JS
Copper	4.16	0.00200		mg/L	208237	1	06/03/2015 08:59	JS
Lead	0.00145	0.00100		mg/L	208237	1	06/03/2015 08:59	JS
Zinc	11.2	0.0200		mg/L	208237	2	06/03/2015 19:41	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 20:10	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 20:10	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 20:10	SH
alpha-BHC	0.00028	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
beta-BHC	0.00033	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
delta-BHC	0.000058	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 20:10	SH
gamma-BHC	0.000079	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 20:10	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 20:10	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 20:10	SH
Surr: Decachlorobiphenyl	78.7	14.6-130		%REC	208299	1	06/04/2015 20:10	SH
Surr: Tetrachloro-m-xylene	68.4	14.4-116		%REC	208299	1	06/04/2015 20:10	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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-6
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 11:18:00 AM
Lab ID:	1506138-004	**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	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/03/2015 00:58	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/03/2015 00:58	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/03/2015 00:58	GK
Acetone	BRL	0.050		mg/L	208243	1	06/03/2015 00:58	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:58	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/03/2015 00:58	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 17:56	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Naphthalene	0.0054	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 17:56	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/03/2015 00:58	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/03/2015 00:58	GK
Surr: 4-Bromofluorobenzene	92.9	70.6-123		%REC	208243	1	06/04/2015 17:56	NP
Surr: 4-Bromofluorobenzene	99	70.6-123		%REC	208243	1	06/03/2015 00:58	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208243	1	06/04/2015 17:56	NP
Surr: Dibromofluoromethane	113	78.7-124		%REC	208243	1	06/03/2015 00:58	GK
Surr: Toluene-d8	97.6	81.3-120		%REC	208243	1	06/03/2015 00:58	GK

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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-6
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 11:18:00 AM
Lab ID:	1506138-004	**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	100	81.3-120		%REC	208243	1	06/04/2015 17:56	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.00731	0.00500		mg/L	208179	1	06/05/2015 12:50	JS
Copper	1.08	0.00200		mg/L	208179	1	06/05/2015 12:50	JS
Lead	BRL	0.00100		mg/L	208179	1	06/05/2015 12:50	JS
Zinc	125	0.200		mg/L	208179	20	06/09/2015 13:31	JS
ION SCAN SW9056A								
Nitrate	28	2.5		mg/L	R293296	10	06/02/2015 11:56	JW
Sulfate	670	10		mg/L	R293296	10	06/02/2015 11:56	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.00612	0.00500		mg/L	208237	1	06/03/2015 09:04	JS
Copper	0.941	0.00200		mg/L	208237	1	06/03/2015 09:04	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 09:04	JS
Zinc	37.3	0.0500		mg/L	208237	5	06/03/2015 19:46	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 20:29	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 20:29	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 20:29	SH
alpha-BHC	0.0018	0.00010		mg/L	208299	2	06/04/2015 22:02	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:29	SH
beta-BHC	0.0019	0.00010		mg/L	208299	2	06/04/2015 22:02	SH
delta-BHC	0.00057	0.000050		mg/L	208299	1	06/04/2015 20:29	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 20:29	SH
gamma-BHC	0.00087	0.000050		mg/L	208299	1	06/04/2015 20:29	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:29	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 20:29	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 20:29	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 20:29	SH
Surr: Decachlorobiphenyl	73.4	14.6-130		%REC	208299	1	06/04/2015 20:29	SH
Surr: Tetrachloro-m-xylene	662	14.4-116	S	%REC	208299	1	06/04/2015 20:29	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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-5
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 1:35:00 PM
Lab ID:	1506138-005	**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	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/03/2015 01:22	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/03/2015 01:22	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/03/2015 01:22	GK
Acetone	BRL	0.050		mg/L	208243	1	06/03/2015 01:22	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/03/2015 01:22	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/03/2015 01:22	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 18:19	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 18:19	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/03/2015 01:22	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/03/2015 01:22	GK
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	208243	1	06/04/2015 18:19	NP
Surr: 4-Bromofluorobenzene	103	70.6-123		%REC	208243	1	06/03/2015 01:22	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	208243	1	06/04/2015 18:19	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	208243	1	06/03/2015 01:22	GK
Surr: Toluene-d8	97.5	81.3-120		%REC	208243	1	06/03/2015 01:22	GK

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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-5
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 1:35:00 PM
Lab ID:	1506138-005	**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	102	81.3-120		%REC	208243	1	06/04/2015 18:19	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208179	1	06/05/2015 12:56	JS
Copper	1.50	0.00200		mg/L	208179	1	06/05/2015 12:56	JS
Lead	0.00149	0.00100		mg/L	208179	1	06/05/2015 12:56	JS
Zinc	33.6	0.0500		mg/L	208179	5	06/08/2015 21:04	JS
ION SCAN SW9056A								
Nitrate	28	2.5		mg/L	R293296	10	06/02/2015 12:11	JW
Sulfate	620	10		mg/L	R293296	10	06/02/2015 12:11	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 09:09	JS
Copper	1.32	0.00200		mg/L	208237	1	06/03/2015 09:09	JS
Lead	0.00106	0.00100		mg/L	208237	1	06/03/2015 09:09	JS
Zinc	12.8	0.0200		mg/L	208237	2	06/03/2015 19:51	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 20:48	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 20:48	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 20:48	SH
alpha-BHC	0.00020	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
beta-BHC	0.00073	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
delta-BHC	0.00017	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 20:48	SH
gamma-BHC	0.00027	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 20:48	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 20:48	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 20:48	SH
Surr: Decachlorobiphenyl	72.9	14.6-130		%REC	208299	1	06/04/2015 20:48	SH
Surr: Tetrachloro-m-xylene	40.9	14.4-116		%REC	208299	1	06/04/2015 20:48	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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-105
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 1:00:00 PM
Lab ID:	1506138-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	0.00500		mg/L	208179	1	06/05/2015 13:01	JS
Copper	0.00906	0.00200		mg/L	208179	1	06/05/2015 13:01	JS
Lead	0.00300	0.00100		mg/L	208179	1	06/05/2015 13:01	JS
Zinc	0.0305	0.0100		mg/L	208179	1	06/05/2015 13:01	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293296	1	06/02/2015 10:52	JW
Sulfate	310	10		mg/L	R293296	10	06/02/2015 12:25	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 09:14	JS
Copper	0.00500	0.00200		mg/L	208237	1	06/03/2015 09:14	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 09:14	JS
Zinc	0.0188	0.0100		mg/L	208237	1	06/03/2015 09:14	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 21:06	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 21:06	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 21:06	SH
alpha-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
beta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
delta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 21:06	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 21:06	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 21:06	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 21:06	SH
Surr: Decachlorobiphenyl	76.1	14.6-130		%REC	208299	1	06/04/2015 21:06	SH
Surr: Tetrachloro-m-xylene	65.3	14.4-116		%REC	208299	1	06/04/2015 21:06	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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-107D
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 3:50:00 PM
Lab ID:	1506138-007	**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	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,1-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,1-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,1-Dichloropropene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,2-Dichloroethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,2-Dichloropropane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
1,4-Dioxane	BRL	0.15		mg/L	208243	1	06/03/2015 01:46	GK
2-Butanone	BRL	0.050		mg/L	208243	1	06/03/2015 01:46	GK
4-Methyl-2-pentanone	BRL	0.010		mg/L	208243	1	06/03/2015 01:46	GK
Acetone	BRL	0.050		mg/L	208243	1	06/03/2015 01:46	GK
Benzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Carbon disulfide	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Carbon tetrachloride	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Chlorobenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Chloroethane	BRL	0.010		mg/L	208243	1	06/03/2015 01:46	GK
Chloroform	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Chloromethane	BRL	0.010		mg/L	208243	1	06/03/2015 01:46	GK
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Cyclohexane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Ethylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Isobutyl Alcohol	BRL	0.20		mg/L	208243	1	06/04/2015 18:41	NP
Isopropylbenzene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Methylene chloride	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Naphthalene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Styrene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Tetrachloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Tetrahydrofuran	BRL	0.010		mg/L	208243	1	06/04/2015 18:41	NP
Toluene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Trichloroethene	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Trichlorofluoromethane	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Vinyl chloride	BRL	0.0020		mg/L	208243	1	06/03/2015 01:46	GK
Xylenes, Total	BRL	0.0050		mg/L	208243	1	06/03/2015 01:46	GK
Surr: 4-Bromofluorobenzene	91.2	70.6-123		%REC	208243	1	06/04/2015 18:41	NP
Surr: 4-Bromofluorobenzene	101	70.6-123		%REC	208243	1	06/03/2015 01:46	GK
Surr: Dibromofluoromethane	105	78.7-124		%REC	208243	1	06/04/2015 18:41	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	208243	1	06/03/2015 01:46	GK
Surr: Toluene-d8	98.1	81.3-120		%REC	208243	1	06/03/2015 01:46	GK

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:** 10-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-107D
Project Name:	BFEL Atlanta	**Collection Date:**	6/1/2015 3:50:00 PM
Lab ID:	1506138-007	**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	101	81.3-120		%REC	208243	1	06/04/2015 18:41	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208179	1	06/05/2015 13:06	JS
Copper	0.00511	0.00200		mg/L	208179	1	06/05/2015 13:06	JS
Lead	BRL	0.00100		mg/L	208179	1	06/05/2015 13:06	JS
Zinc	BRL	0.0100		mg/L	208179	1	06/05/2015 13:06	JS
ION SCAN SW9056A								
Nitrate	3.5	2.5		mg/L	R293296	10	06/02/2015 13:24	JW
Sulfate	170	10		mg/L	R293296	10	06/02/2015 13:24	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208237	1	06/03/2015 09:19	JS
Copper	0.00328	0.00200		mg/L	208237	1	06/03/2015 09:19	JS
Lead	BRL	0.00100		mg/L	208237	1	06/03/2015 09:19	JS
Zinc	BRL	0.0100		mg/L	208237	1	06/03/2015 09:19	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 21:25	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 21:25	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 21:25	SH
alpha-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
beta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
delta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 21:25	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 21:25	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 21:25	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 21:25	SH
Surr: Decachlorobiphenyl	85.7	14.6-130		%REC	208299	1	06/04/2015 21:25	SH
Surr: Tetrachloro-m-xylene	72.6	14.4-116		%REC	208299	1	06/04/2015 21:25	SH

Qualifiers:

- * Value exceeds maximum contaminant level
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- > Greater than Result value
- E Estimated (value above quantitation range)
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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC Work Order Number 1506130

Checklist completed by Signature 6/16/15 Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1° Cooler #2 3.9° 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 MS

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: 10-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Lab Order: 1506138

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506138-001A	TB-04	6/1/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/02/2015
1506138-001A	TB-04	6/1/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-002A	MW-104A	6/1/2015 12:38:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/03/2015
1506138-002A	MW-104A	6/1/2015 12:38:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-002B	MW-104A	6/1/2015 12:38:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-002C	MW-104A	6/1/2015 12:38:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-002D	MW-104A	6/1/2015 12:38:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-002E	MW-104A	6/1/2015 12:38:00PM	Groundwater	ION SCAN			06/02/2015
1506138-003A	MW-115	6/1/2015 3:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/03/2015
1506138-003A	MW-115	6/1/2015 3:08:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-003B	MW-115	6/1/2015 3:08:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-003B	MW-115	6/1/2015 3:08:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/08/2015
1506138-003C	MW-115	6/1/2015 3:08:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-003D	MW-115	6/1/2015 3:08:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-003E	MW-115	6/1/2015 3:08:00PM	Groundwater	ION SCAN			06/02/2015
1506138-004A	TW-6	6/1/2015 11:18:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/03/2015
1506138-004A	TW-6	6/1/2015 11:18:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-004B	TW-6	6/1/2015 11:18:00AM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-004B	TW-6	6/1/2015 11:18:00AM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/09/2015
1506138-004C	TW-6	6/1/2015 11:18:00AM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-004D	TW-6	6/1/2015 11:18:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-004E	TW-6	6/1/2015 11:18:00AM	Groundwater	ION SCAN			06/02/2015
1506138-005A	TW-5	6/1/2015 1:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/03/2015
1506138-005A	TW-5	6/1/2015 1:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-005B	TW-5	6/1/2015 1:35:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-005B	TW-5	6/1/2015 1:35:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/08/2015
1506138-005C	TW-5	6/1/2015 1:35:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-005D	TW-5	6/1/2015 1:35:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-005E	TW-5	6/1/2015 1:35:00PM	Groundwater	ION SCAN			06/02/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Lab Order: 1506138

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506138-006B	MW-105	6/1/2015 1:00:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-006C	MW-105	6/1/2015 1:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-006D	MW-105	6/1/2015 1:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-006E	MW-105	6/1/2015 1:00:00PM	Groundwater	ION SCAN			06/02/2015
1506138-007A	MW-107D	6/1/2015 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/03/2015
1506138-007A	MW-107D	6/1/2015 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/2/2015 9:24:00AM	06/04/2015
1506138-007B	MW-107D	6/1/2015 3:50:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506138-007C	MW-107D	6/1/2015 3:50:00PM	Groundwater	Dissolved Metals by ICP/MS		6/2/2015 3:30:00PM	06/03/2015
1506138-007D	MW-107D	6/1/2015 3:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506138-007E	MW-107D	6/1/2015 3:50:00PM	Groundwater	ION SCAN			06/02/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Workorder: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208179

Sample ID: **MB-208179** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293239**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208179** Analysis Date: **06/05/2015** Seq No: **6247452**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									

Sample ID: **MB-208179** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293239**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208179** Analysis Date: **06/06/2015** Seq No: **6247699**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Zinc	BRL	0.0100									

Sample ID: **LCS-208179** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293239**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208179** Analysis Date: **06/05/2015** Seq No: **6247451**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09519	0.00500	100.0		95.2	80	120				
Copper	0.09695	0.00200	100.0		96.9	80	120				
Lead	0.09172	0.00100	100.0		91.7	80	120				
Zinc	0.09998	0.0100	100.0		100.0	80	120				

Sample ID: **1505Q34-001DMS** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293239**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208179** Analysis Date: **06/05/2015** Seq No: **6247454**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1029	0.00500	100.0	4.236	98.7	75	125				
Copper	0.09269	0.00200	100.0	0.8661	91.8	75	125				
Lead	0.08499	0.00100	100.0	0.8810	84.1	75	125				
Zinc	0.09391	0.0100	100.0	4.867	89.0	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208179

Sample ID: **1505Q34-001DMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/04/2015** Run No: **293239**
BatchID: **208179** Analysis Date: **06/05/2015** Seq No: **6247455**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1063	0.00500	100.0	4.236	102	75	125	102.9	3.29	20	
Copper	0.09588	0.00200	100.0	0.8661	95.0	75	125	92.69	3.38	20	
Lead	0.08759	0.00100	100.0	0.8810	86.7	75	125	84.99	3.02	20	
Zinc	0.09714	0.0100	100.0	4.867	92.3	75	125	93.91	3.38	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **MB-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241208**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208237** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241207**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09782	0.00500	100.0		97.8	80	120				
Copper	0.09755	0.00200	100.0		97.5	80	120				
Lead	0.09706	0.00100	100.0		97.1	80	120				
Zinc	0.09521	0.0100	100.0		95.2	80	120				

Sample ID: **1505N78-004CMS** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241210**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09767	0.00500	100.0		97.7	75	125				
Copper	0.09620	0.00200	100.0	4.126	92.1	75	125				
Lead	0.09244	0.00100	100.0		92.4	75	125				
Zinc	0.1148	0.0100	100.0	23.80	91.0	75	125				

Sample ID: **1505N78-004CMSD** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1015	0.00500	100.0		101	75	125	97.67	3.80	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208237

Sample ID: **1505N78-004CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/02/2015** Run No: **293066**
BatchID: **208237** Analysis Date: **06/03/2015** Seq No: **6241211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1011	0.00200	100.0	4.126	96.9	75	125	96.20	4.94	20	
Lead	0.09549	0.00100	100.0		95.5	75	125	92.44	3.24	20	
Zinc	0.1192	0.0100	100.0	23.80	95.4	75	125	114.8	3.74	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239988**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04467	0	50.00		89.3	70.6	123				
Surr: Dibromofluoromethane	0.05239	0	50.00		105	78.7	124				
Surr: Toluene-d8	0.04703	0	50.00		94.1	81.3	120				

Sample ID: **MB-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/04/2015** Seq No: **6244054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isobutyl Alcohol	BRL	0.20									
Tetrahydrofuran	BRL	0.010									
Surr: 4-Bromofluorobenzene	0.04589	0	50.00		91.8	70.6	123				
Surr: Dibromofluoromethane	0.05203	0	50.00		104	78.7	124				
Surr: Toluene-d8	0.05051	0	50.00		101	81.3	120				

Sample ID: **LCS-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05475	0.0050	50.00		110	64.2	137				
Benzene	0.04934	0.0050	50.00		98.7	72.8	128				

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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **LCS-208243** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **292950**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/02/2015** Seq No: **6239987**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	0.05129	0.0050	50.00		103	72.3	126				
Toluene	0.04901	0.0050	50.00		98.0	74.9	127				
Trichloroethene	0.04818	0.0050	50.00		96.4	70.5	134				
Surr: 4-Bromofluorobenzene	0.04508	0	50.00		90.2	70.6	123				
Surr: Dibromofluoromethane	0.05032	0	50.00		101	78.7	124				
Surr: Toluene-d8	0.04685	0	50.00		93.7	81.3	120				

Sample ID: **1505Q12-001AMS** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293072**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/03/2015** Seq No: **6241323**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	525.1	50	500000		105	60.5	156				
Benzene	473.4	50	500000		94.7	70	135				
Chlorobenzene	500.4	50	500000		100	70.5	132				
Toluene	576.9	50	500000	117200	91.9	70.5	137				
Trichloroethene	463.2	50	500000		92.6	71.8	139				
Surr: 4-Bromofluorobenzene	444.8	0	500000		89.0	70.6	123				
Surr: Dibromofluoromethane	493.6	0	500000		98.7	78.7	124				
Surr: Toluene-d8	464.5	0	500000		92.9	81.3	120				

Sample ID: **1505Q12-001AMSD** Client ID: Units: **mg/L** Prep Date: **06/02/2015** Run No: **293072**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208243** Analysis Date: **06/03/2015** Seq No: **6241324**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	521.9	50	500000		104	60.5	156	525100	0.611	20	
Benzene	472.7	50	500000		94.5	70	135	473400	0.148	20	
Chlorobenzene	483.3	50	500000		96.7	70.5	132	500400	3.48	20	
Toluene	583.1	50	500000	117200	93.2	70.5	137	576900	1.07	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208243

Sample ID: **1505Q12-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **mg/L** Prep Date: **06/02/2015** Run No: **293072**
BatchID: **208243** Analysis Date: **06/03/2015** Seq No: **6241324**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Trichloroethene	467.8	50	500000		93.6	71.8	139	463200	0.988	20	
Surr: 4-Bromofluorobenzene	454.6	0	500000		90.9	70.6	123	444800	0	0	
Surr: Dibromofluoromethane	501.1	0	500000		100	78.7	124	493600	0	0	
Surr: Toluene-d8	472.5	0	500000		94.5	81.3	120	464500	0	0	

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Workorder: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **MB-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246871**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000394	0	0.5000		78.7	14.6	130				
Surr: Tetrachloro-m-xylene	0.000300	0	0.5000		60.1	14.4	116				

Sample ID: **LCS-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000866	0.00010	1.000		86.6	52.5	140				
Dieldrin	0.000905	0.00010	1.000		90.5	59.5	137				
gamma-BHC	0.000854	0.000050	1.000		85.4	46	134				
Heptachlor	0.000817	0.000050	1.000		81.7	44.7	127				
Surr: Decachlorobiphenyl	0.000413	0	0.5000		82.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000308	0	0.5000		61.7	14.4	116				

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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **1506270-003CMS**	Client ID:			Units: **mg/L**		Prep Date: **06/04/2015**		Run No: **293295**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**			BatchID: **208299**		Analysis Date: **06/04/2015**		Seq No: **6246887**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000931	0.00010	1.000		93.1	27.1	146				
Dieldrin	0.000992	0.00010	1.000		99.2	39.4	142				
gamma-BHC	0.000866	0.000050	1.000		86.6	34.5	144				
Heptachlor	0.000827	0.000050	1.000		82.7	33	138				
Surr: Decachlorobiphenyl	0.000441	0	0.5000		88.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.000343	0	0.5000		68.6	14.4	116				

Sample ID: **1506270-003CMSD**	Client ID:			Units: **mg/L**		Prep Date: **06/04/2015**		Run No: **293295**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**			BatchID: **208299**		Analysis Date: **06/04/2015**		Seq No: **6246888**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000876	0.00010	1.000		87.6	27.1	146	0.9312	6.13	21.2	
Dieldrin	0.000923	0.00010	1.000		92.3	39.4	142	0.9921	7.22	20	
gamma-BHC	0.000839	0.000050	1.000		83.9	34.5	144	0.8659	3.18	23.1	
Heptachlor	0.000805	0.000050	1.000		80.5	33	138	0.8267	2.66	26.9	
Surr: Decachlorobiphenyl	0.000428	0	0.5000		85.6	14.6	130	0.4412	0	0	
Surr: Tetrachloro-m-xylene	0.000358	0	0.5000		71.6	14.4	116	0.3429	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: R293296

Sample ID: **MB-R293296** Client ID: Units: **mg/L** Prep Date: Run No: **293296**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246933**

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-R293296** Client ID: Units: **mg/L** Prep Date: Run No: **293296**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246932**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.945	0.25	5.000		98.9	90	110				
Sulfate	24.33	1.0	25.00		97.3	90	110				

Sample ID: **1506234-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293296**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246955**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.60	2.5	50.00		101	90	110				
Sulfate	277.0	10	250.0	35.51	96.6	90	110				

Sample ID: **1506236-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293296**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246950**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.17	2.5	50.00	3.584	97.2	90	110				
Sulfate	264.3	10	250.0	26.73	95.0	90	110				

Sample ID: **1506234-002BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293296**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246956**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	47.40	2.5	50.00		94.8	90	110	50.60	6.54	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: 1506138

ANALYTICAL QC SUMMARY REPORT

BatchID: R293296

Sample ID: **1506234-002BMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **293296**
BatchID: **R293296** Analysis Date: **06/02/2015** Seq No: **6246956**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	272.3	10	250.0	35.51	94.7	90	110	277.0	1.73	20	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 12, 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: 1506270

Analytical Environmental Services, Inc. received 7 samples on 6/2/2015 6:00:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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

2 Coolers

Work Order: 1506270

Date: 6/2/15 Page 1 of 1

COMPANY: Amec Foster Wheeler E&I

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

PHONE: 770-421-3516

FAX: 770-421-3486

SAMPLED BY: D Howard, M Andrews, E Guillen

SIGNATURE: Daniel Howard

ANALYSIS REQUESTED

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) H+I	N	I	I	I	VOCs list +	Tot Metals list +	Diss Metals list +	Pest +	Nitrates + Sulfate	No # of Containers
1	TB-05	6/2/15	1000	X		W	2										2
2	MW-106D		1520	X		GW	2	1	1	2	1						7
3	MW-117		1100	X		GW		1	1	2	1						7
4	MW-113		1420	X		GW	2	1	1	2	1						7
5	MW-114		1630	X		GW	2	1	1	2	1						7
6	TW-8		1522	X		GW	2	1	1	2	1						7
7	MW-25		1236	X		GW	2	1	1	2	1						7
8	Temp Blank																
9																	
10																	
11																	
12																	
13																	
14																	

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

REMARKS

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6/2/15 1724	1:	6-2-15 5:24 pm
2:	6-2-15 6:00	2: Katie Forum	6-2-15 18:00
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be filtered by lab
* Metals list: Arsenic, lead Copper, Zinc

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

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

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1506270

Case Narrative

Ion Chromotography Analysis by Method 9056A:

Due to sample matrix, sample(s) 1506270-004E and -006E required dilution during preparation and/or analysis resulting in elevated reporting limits.

Metals Analysis by Method 6020:

Zinc was detected in Method Blank 208357 at 35.6 µg/L which was above reporting limit of 10 µg/L resulting in "B" qualified data for all samples with final Reporting Limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected.

Lead was detected in Method Blank 208357 at 1.03 µg/L which was above reporting limit of 1.0 µg/L resulting in "B" qualified data for all samples with final Reporting Limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected.

Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-05
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 10:00:00 AM
Lab ID:	1506270-001	**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	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 11:17	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 12:18	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 12:18	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 12:18	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 12:18	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 12:18	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 12:18	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 12:18	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 12:18	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 12:18	NP
Surr: 4-Bromofluorobenzene	88.8	70.6-123		%REC	208368	1	06/05/2015 12:18	NP
Surr: 4-Bromofluorobenzene	91.9	70.6-123		%REC	208368	1	06/08/2015 11:17	NP
Surr: Dibromofluoromethane	92.5	78.7-124		%REC	208368	1	06/08/2015 11:17	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208368	1	06/05/2015 12:18	NP
Surr: Toluene-d8	94.1	81.3-120		%REC	208368	1	06/05/2015 12:18	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-05
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 10:00:00 AM
Lab ID:	1506270-001	**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	95.9	81.3-120		%REC	208368	1	06/08/2015 11:17	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-106D
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 3:20:00 PM
Lab ID:	1506270-002	**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	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 12:05	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 12:41	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 12:41	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 12:41	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 12:41	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 12:41	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 12:41	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 12:41	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 12:41	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 12:41	NP
Surr: 4-Bromofluorobenzene	88.1	70.6-123		%REC	208368	1	06/05/2015 12:41	NP
Surr: 4-Bromofluorobenzene	92.5	70.6-123		%REC	208368	1	06/08/2015 12:05	NP
Surr: Dibromofluoromethane	93.2	78.7-124		%REC	208368	1	06/08/2015 12:05	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208368	1	06/05/2015 12:41	NP
Surr: Toluene-d8	95.5	81.3-120		%REC	208368	1	06/08/2015 12:05	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-106D
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 3:20:00 PM
Lab ID:	1506270-002	**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	94.2	81.3-120		%REC	208368	1	06/05/2015 12:41	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208578	1	06/11/2015 19:49	JS
Copper	0.00529	0.00200		mg/L	208578	1	06/11/2015 19:49	JS
Lead	BRL	0.00100		mg/L	208578	1	06/11/2015 19:49	JS
Zinc	0.273	0.0100		mg/L	208578	1	06/11/2015 19:49	JS
ION SCAN SW9056A								
Nitrate	0.61	0.25		mg/L	R293342	1	06/03/2015 09:46	JW
Sulfate	380	10		mg/L	R293342	10	06/03/2015 11:22	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 14:23	JS
Copper	0.00357	0.00200		mg/L	208482	1	06/08/2015 14:23	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 14:23	JS
Zinc	0.280	0.0100		mg/L	208482	1	06/08/2015 14:23	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 22:20	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 22:20	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 22:20	SH
alpha-BHC	0.0066	0.00050		mg/L	208299	10	06/05/2015 13:36	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 22:20	SH
beta-BHC	0.0022	0.00010		mg/L	208299	2	06/05/2015 13:54	SH
delta-BHC	0.0079	0.00050		mg/L	208299	10	06/05/2015 13:36	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 22:20	SH
gamma-BHC	0.0038	0.00050		mg/L	208299	10	06/05/2015 13:36	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 22:20	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 22:20	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 22:20	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 22:20	SH
Surr: Decachlorobiphenyl	77.9	14.6-130		%REC	208299	1	06/04/2015 22:20	SH
Surr: Tetrachloro-m-xylene	71.7	14.4-116		%REC	208299	1	06/04/2015 22:20	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-117
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 11:00:00 AM
Lab ID:	1506270-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208578	1	06/11/2015 19:55	JS
Copper	0.0295	0.00200		mg/L	208578	1	06/11/2015 19:55	JS
Lead	0.00117	0.00100		mg/L	208578	1	06/11/2015 19:55	JS
Zinc	0.802	0.0100		mg/L	208578	1	06/11/2015 19:55	JS
ION SCAN SW9056A								
Nitrate	3.4	0.25		mg/L	R293342	1	06/03/2015 10:01	JW
Sulfate	150	10		mg/L	R293342	10	06/03/2015 11:36	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 16:43	JS
Copper	0.0321	0.00200		mg/L	208482	1	06/08/2015 16:43	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 16:43	JS
Zinc	0.865	0.0100		mg/L	208482	1	06/08/2015 16:43	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 22:39	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 22:39	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 22:39	SH
alpha-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
beta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
delta-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 22:39	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 22:39	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 22:39	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 22:39	SH
Surr: Decachlorobiphenyl	85.1	14.6-130		%REC	208299	1	06/04/2015 22:39	SH
Surr: Tetrachloro-m-xylene	77	14.4-116		%REC	208299	1	06/04/2015 22:39	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-113
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 2:20:00 PM
Lab ID:	1506270-004	**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	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 12:29	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 13:04	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 13:04	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 13:04	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 13:04	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 13:04	NP
cis-1,2-Dichloroethene	0.056	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 13:04	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 13:04	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Trichloroethene	0.044	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 13:04	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 13:04	NP
Surr: 4-Bromofluorobenzene	85.9	70.6-123		%REC	208368	1	06/05/2015 13:04	NP
Surr: 4-Bromofluorobenzene	92.2	70.6-123		%REC	208368	1	06/08/2015 12:29	NP
Surr: Dibromofluoromethane	92.6	78.7-124		%REC	208368	1	06/08/2015 12:29	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208368	1	06/05/2015 13:04	NP
Surr: Toluene-d8	93.2	81.3-120		%REC	208368	1	06/05/2015 13:04	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-113
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 2:20:00 PM
Lab ID:	1506270-004	**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	95.1	81.3-120		%REC	208368	1	06/08/2015 12:29	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.0177	0.00500		mg/L	208357	1	06/05/2015 21:22	JS
Copper	13.2	0.0100		mg/L	208357	5	06/12/2015 11:06	JS
Lead	0.0185	0.00500		mg/L	208357	5	06/09/2015 13:46	JS
Zinc	4.10	0.0500		mg/L	208357	5	06/09/2015 13:46	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R293342	10	06/03/2015 11:51	JW
Sulfate	810	10		mg/L	R293342	10	06/03/2015 11:51	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.0189	0.00500		mg/L	208482	20	06/08/2015 18:14	JS
Copper	12.4	0.0400		mg/L	208482	20	06/08/2015 18:14	JS
Lead	0.00545	0.00200		mg/L	208482	20	06/08/2015 18:14	JS
Zinc	72.2	0.200		mg/L	208482	20	06/08/2015 18:14	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 23:34	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 23:34	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 23:34	SH
alpha-BHC	0.00025	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
beta-BHC	0.00076	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
delta-BHC	0.00017	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 23:34	SH
gamma-BHC	0.00026	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 23:34	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 23:34	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 23:34	SH
Surr: Decachlorobiphenyl	82.9	14.6-130		%REC	208299	1	06/04/2015 23:34	SH
Surr: Tetrachloro-m-xylene	72.6	14.4-116		%REC	208299	1	06/04/2015 23:34	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-114
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 4:30:00 PM
Lab ID:	1506270-005	**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	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 12:53	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 13:26	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 13:26	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 13:26	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 13:26	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 13:26	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 13:26	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 13:26	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 13:26	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 13:26	NP
Surr: 4-Bromofluorobenzene	87.4	70.6-123		%REC	208368	1	06/05/2015 13:26	NP
Surr: 4-Bromofluorobenzene	92.7	70.6-123		%REC	208368	1	06/08/2015 12:53	NP
Surr: Dibromofluoromethane	93.9	78.7-124		%REC	208368	1	06/08/2015 12:53	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208368	1	06/05/2015 13:26	NP
Surr: Toluene-d8	94.6	81.3-120		%REC	208368	1	06/05/2015 13:26	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-114
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 4:30:00 PM
Lab ID:	1506270-005	**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	95.6	81.3-120		%REC	208368	1	06/08/2015 12:53	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208578	1	06/11/2015 20:01	JS
Copper	1.48	0.00200		mg/L	208578	1	06/11/2015 20:01	JS
Lead	0.00159	0.00100		mg/L	208578	1	06/11/2015 20:01	JS
Zinc	7.93	0.0100		mg/L	208578	1	06/11/2015 20:01	JS
ION SCAN SW9056A								
Nitrate	29	2.5		mg/L	R293342	10	06/03/2015 12:06	JW
Sulfate	480	10		mg/L	R293342	10	06/03/2015 12:06	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 16:54	JS
Copper	1.51	0.00200		mg/L	208482	1	06/08/2015 16:54	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 16:54	JS
Zinc	7.18	0.0100		mg/L	208482	1	06/08/2015 16:54	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/04/2015 23:53	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/04/2015 23:53	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/04/2015 23:53	SH
alpha-BHC	0.00015	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
beta-BHC	0.0018	0.00010		mg/L	208299	2	06/05/2015 14:13	SH
delta-BHC	0.000066	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/04/2015 23:53	SH
gamma-BHC	0.00012	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/04/2015 23:53	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/04/2015 23:53	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/04/2015 23:53	SH
Surr: Decachlorobiphenyl	83.5	14.6-130		%REC	208299	1	06/04/2015 23:53	SH
Surr: Tetrachloro-m-xylene	86.9	14.4-116		%REC	208299	1	06/04/2015 23:53	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-8
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 3:22:00 PM
Lab ID:	1506270-006	**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	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,2,4-Trichlorobenzene	0.069	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 11:41	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/08/2015 11:02	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/08/2015 11:02	NP
Acetone	BRL	0.050		mg/L	208368	1	06/08/2015 11:02	NP
Benzene	0.11	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Chlorobenzene	0.55	0.050		mg/L	208368	10	06/08/2015 12:10	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/08/2015 11:02	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/08/2015 11:02	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/08/2015 11:02	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/08/2015 11:02	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/08/2015 11:02	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/08/2015 11:02	NP
Surr: 4-Bromofluorobenzene	89.1	70.6-123		%REC	208368	1	06/08/2015 11:02	NP
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	208368	1	06/08/2015 11:41	NP
Surr: 4-Bromofluorobenzene	89.8	70.6-123		%REC	208368	10	06/08/2015 12:10	NP
Surr: Dibromofluoromethane	92.1	78.7-124		%REC	208368	1	06/08/2015 11:41	NP
Surr: Dibromofluoromethane	97.6	78.7-124		%REC	208368	1	06/08/2015 11:02	NP

Qualifiers:

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- > 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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-8
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 3:22:00 PM
Lab ID:	1506270-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Surr: Dibromofluoromethane	103	78.7-124		%REC	208368	10	06/08/2015 12:10	NP
Surr: Toluene-d8	92.2	81.3-120		%REC	208368	1	06/08/2015 11:02	NP
Surr: Toluene-d8	95.1	81.3-120		%REC	208368	1	06/08/2015 11:41	NP
Surr: Toluene-d8	94.1	81.3-120		%REC	208368	10	06/08/2015 12:10	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.0979	0.00500		mg/L	208578	1	06/11/2015 20:26	JS
Copper	0.0199	0.00200		mg/L	208578	1	06/11/2015 20:26	JS
Lead	0.00237	0.00100		mg/L	208578	1	06/11/2015 20:26	JS
Zinc	2.02	0.0100		mg/L	208578	1	06/11/2015 20:26	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R293342	10	06/03/2015 13:05	JW
Sulfate	650	10		mg/L	R293342	10	06/03/2015 13:05	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.0369	0.00500		mg/L	208482	1	06/08/2015 16:59	JS
Copper	0.00244	0.00200		mg/L	208482	1	06/08/2015 16:59	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 16:59	JS
Zinc	1.37	0.0100		mg/L	208482	1	06/08/2015 16:59	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.0039	0.0010		mg/L	208299	10	06/05/2015 16:42	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/05/2015 15:27	SH
4,4´-DDT	0.015	0.0010		mg/L	208299	10	06/05/2015 16:42	SH
alpha-BHC	0.45	0.025		mg/L	208299	500	06/05/2015 15:45	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/05/2015 15:27	SH
beta-BHC	0.054	0.0025		mg/L	208299	50	06/05/2015 14:50	SH
delta-BHC	1.2	0.050		mg/L	208299	1000	06/05/2015 16:22	SH
Dieldrin	0.0036	0.0010		mg/L	208299	10	06/05/2015 16:42	SH
gamma-BHC	0.97	0.050		mg/L	208299	1000	06/05/2015 16:22	SH
gamma-Chlordane	0.0010	0.000050		mg/L	208299	1	06/05/2015 15:27	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/05/2015 15:27	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/05/2015 15:27	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/05/2015 15:27	SH
Surr: Decachlorobiphenyl	85.5	14.6-130		%REC	208299	1	06/05/2015 15:27	SH
Surr: Tetrachloro-m-xylene	240	14.4-116	S	%REC	208299	1	06/05/2015 15:27	SH

Qualifiers:

- * Value exceeds maximum contaminant level
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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 **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-25
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 12:36:00 PM
Lab ID:	1506270-007	**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	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 13:18	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 14:11	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 14:11	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 14:11	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 14:11	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 14:11	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 14:11	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 14:11	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 14:11	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 14:11	NP
Surr: 4-Bromofluorobenzene	89.2	70.6-123		%REC	208368	1	06/05/2015 14:11	NP
Surr: 4-Bromofluorobenzene	91.9	70.6-123		%REC	208368	1	06/08/2015 13:18	NP
Surr: Dibromofluoromethane	94.8	78.7-124		%REC	208368	1	06/08/2015 13:18	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208368	1	06/05/2015 14:11	NP
Surr: Toluene-d8	95.2	81.3-120		%REC	208368	1	06/05/2015 14:11	NP

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Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-25
Project Name:	BFEL-Atlanta	**Collection Date:**	6/2/2015 12:36:00 PM
Lab ID:	1506270-007	**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	97.6	81.3-120		%REC	208368	1	06/08/2015 13:18	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208357	1	06/05/2015 21:49	JS
Copper	0.269	0.00200		mg/L	208357	1	06/05/2015 21:49	JS
Lead	0.0153	0.00100	B	mg/L	208357	1	06/05/2015 21:49	JS
Zinc	3.31	0.0100	B	mg/L	208357	1	06/05/2015 21:49	JS
ION SCAN SW9056A								
Nitrate	1.2	0.25		mg/L	R293342	1	06/03/2015 11:00	JW
Sulfate	260	10		mg/L	R293342	10	06/03/2015 13:19	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 17:05	JS
Copper	0.291	0.00200		mg/L	208482	1	06/08/2015 17:05	JS
Lead	0.0138	0.00100		mg/L	208482	1	06/08/2015 17:05	JS
Zinc	3.50	0.0100		mg/L	208482	1	06/08/2015 17:05	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208299	1	06/05/2015 15:08	SH
4,4´-DDE	BRL	0.00010		mg/L	208299	1	06/05/2015 15:08	SH
4,4´-DDT	BRL	0.00010		mg/L	208299	1	06/05/2015 15:08	SH
alpha-BHC	0.00014	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
alpha-Chlordane	BRL	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
beta-BHC	0.0035	0.00025		mg/L	208299	5	06/05/2015 14:31	SH
delta-BHC	0.00011	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
Dieldrin	BRL	0.00010		mg/L	208299	1	06/05/2015 15:08	SH
gamma-BHC	BRL	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
gamma-Chlordane	BRL	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
Heptachlor	BRL	0.000050		mg/L	208299	1	06/05/2015 15:08	SH
Methoxychlor	BRL	0.00050		mg/L	208299	1	06/05/2015 15:08	SH
Toxaphene	BRL	0.0050		mg/L	208299	1	06/05/2015 15:08	SH
Surr: Decachlorobiphenyl	76.2	14.6-130		%REC	208299	1	06/05/2015 15:08	SH
Surr: Tetrachloro-m-xylene	50.8	14.4-116		%REC	208299	1	06/05/2015 15:08	SH

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Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC/Kennesaw Work Order Number 1506270

Checklist completed by Katie Forum 6/2/15
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 3.4°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 KF

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 12-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506270

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506270-001A	TB-05	6/2/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506270-001A	TB-05	6/2/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-002A	MW-106D	6/2/2015 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506270-002A	MW-106D	6/2/2015 3:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-002B	MW-106D	6/2/2015 3:20:00PM	Groundwater	Total Metals by ICP/MS		6/9/2015 5:00:00PM	06/11/2015
1506270-002C	MW-106D	6/2/2015 3:20:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-002D	MW-106D	6/2/2015 3:20:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506270-002D	MW-106D	6/2/2015 3:20:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/05/2015
1506270-002E	MW-106D	6/2/2015 3:20:00PM	Groundwater	ION SCAN			06/03/2015
1506270-003A	MW-117	6/2/2015 11:00:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506270-003B	MW-117	6/2/2015 11:00:00AM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-003C	MW-117	6/2/2015 11:00:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506270-003C	MW-117	6/2/2015 11:00:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506270-003D	MW-117	6/2/2015 11:00:00AM	Groundwater	ION SCAN			06/03/2015
1506270-004A	MW-113	6/2/2015 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506270-004A	MW-113	6/2/2015 2:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-004B	MW-113	6/2/2015 2:20:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506270-004B	MW-113	6/2/2015 2:20:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/09/2015
1506270-004B	MW-113	6/2/2015 2:20:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/12/2015
1506270-004C	MW-113	6/2/2015 2:20:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-004D	MW-113	6/2/2015 2:20:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506270-004E	MW-113	6/2/2015 2:20:00PM	Groundwater	ION SCAN			06/03/2015
1506270-005A	MW-114	6/2/2015 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506270-005A	MW-114	6/2/2015 4:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-005B	MW-114	6/2/2015 4:30:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506270-005C	MW-114	6/2/2015 4:30:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-005D	MW-114	6/2/2015 4:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/04/2015
1506270-005D	MW-114	6/2/2015 4:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/05/2015
1506270-005E	MW-114	6/2/2015 4:30:00PM	Groundwater	ION SCAN			06/03/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506270

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506270-006A	TW-8	6/2/2015 3:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-006B	TW-8	6/2/2015 3:22:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506270-006C	TW-8	6/2/2015 3:22:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-006D	TW-8	6/2/2015 3:22:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/05/2015
1506270-006E	TW-8	6/2/2015 3:22:00PM	Groundwater	ION SCAN			06/03/2015
1506270-007A	MW-25	6/2/2015 12:36:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506270-007A	MW-25	6/2/2015 12:36:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506270-007B	MW-25	6/2/2015 12:36:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506270-007C	MW-25	6/2/2015 12:36:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506270-007D	MW-25	6/2/2015 12:36:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/4/2015 1:00:00PM	06/05/2015
1506270-007E	MW-25	6/2/2015 12:36:00PM	Groundwater	ION SCAN			06/03/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **MB-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246871**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000394	0	0.5000		78.7	14.6	130				
Surr: Tetrachloro-m-xylene	0.000300	0	0.5000		60.1	14.4	116				

Sample ID: **LCS-208299** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293295**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208299** Analysis Date: **06/04/2015** Seq No: **6246872**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000866	0.00010	1.000		86.6	52.5	140				
Dieldrin	0.000905	0.00010	1.000		90.5	59.5	137				
gamma-BHC	0.000854	0.000050	1.000		85.4	46	134				
Heptachlor	0.000817	0.000050	1.000		81.7	44.7	127				
Surr: Decachlorobiphenyl	0.000413	0	0.5000		82.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000308	0	0.5000		61.7	14.4	116				

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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208299

Sample ID: **1506270-003CMS**	Client ID: **MW-117**	Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293295**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **208299**	Analysis Date: **06/04/2015**	Seq No: **6246887**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000931	0.00010	1.000		93.1	27.1	146				
Dieldrin	0.000992	0.00010	1.000		99.2	39.4	142				
gamma-BHC	0.000866	0.000050	1.000		86.6	34.5	144				
Heptachlor	0.000827	0.000050	1.000		82.7	33	138				
Surr: Decachlorobiphenyl	0.000441	0	0.5000		88.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.000343	0	0.5000		68.6	14.4	116				

Sample ID: **1506270-003CMSD**	Client ID: **MW-117**	Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293295**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **208299**	Analysis Date: **06/04/2015**	Seq No: **6246888**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000876	0.00010	1.000		87.6	27.1	146	0.9312	6.13	21.2	
Dieldrin	0.000923	0.00010	1.000		92.3	39.4	142	0.9921	7.22	20	
gamma-BHC	0.000839	0.000050	1.000		83.9	34.5	144	0.8659	3.18	23.1	
Heptachlor	0.000805	0.000050	1.000		80.5	33	138	0.8267	2.66	26.9	
Surr: Decachlorobiphenyl	0.000428	0	0.5000		85.6	14.6	130	0.4412	0	0	
Surr: Tetrachloro-m-xylene	0.000358	0	0.5000		71.6	14.4	116	0.3429	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208357

Sample ID: **MB-208357** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247724**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	0.001035	0.00100									B
Zinc	0.03568	0.0100									B

Sample ID: **LCS-208357** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247723**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09580	0.00500	100.0		95.8	80	120				
Copper	0.09411	0.00200	100.0	1.218	92.9	80	120				
Lead	0.09767	0.00100	100.0	1.056	96.6	80	120				B
Zinc	0.09571	0.0100	100.0		95.7	80	120				B

Sample ID: **1506270-002BMS** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247726**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1009	0.00500	100.0		101	75	125				
Copper	0.09472	0.00200	100.0	3.455	91.3	75	125				
Lead	0.09007	0.00100	100.0	0.7424	89.3	75	125				B
Zinc	0.3811	0.0100	100.0	286.0	95.1	75	125				B

Sample ID: **1506270-002BMSD** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09930	0.00500	100.0		99.3	75	125	100.9	1.58	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208357

Sample ID: **1506270-002BMSD** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09671	0.00200	100.0	3.455	93.3	75	125	94.72	2.07	20	
Lead	0.08514	0.00100	100.0	0.7424	84.4	75	125	90.07	5.62	20	B
Zinc	0.3703	0.0100	100.0	286.0	84.3	75	125	381.1	2.87	20	B

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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244043**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04437	0	50.00		88.7	70.6	123				
Surr: Dibromofluoromethane	0.05229	0	50.00		105	78.7	124				
Surr: Toluene-d8	0.04657	0	50.00		93.1	81.3	120				

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293377**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/08/2015** Seq No: **6248856**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.15									
Surr: 4-Bromofluorobenzene	0.04590	0	50.00		91.8	70.6	123				
Surr: Dibromofluoromethane	0.04615	0	50.00		92.3	78.7	124				
Surr: Toluene-d8	0.04766	0	50.00		95.3	81.3	120				

Sample ID: **LCS-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244042**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05400	0.0050	50.00		108	64.2	137				
Benzene	0.04463	0.0050	50.00		89.3	72.8	128				
Chlorobenzene	0.04593	0.0050	50.00		91.9	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **LCS-208368**	Client ID:		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244042**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.04343	0.0050	50.00		86.9	74.9	127				
Trichloroethene	0.04378	0.0050	50.00		87.6	70.5	134				
Surr: 4-Bromofluorobenzene	0.04490	0	50.00		89.8	70.6	123				
Surr: Dibromofluoromethane	0.05046	0	50.00		101	78.7	124				
Surr: Toluene-d8	0.04566	0	50.00		91.3	81.3	120				

Sample ID: **1506347-001AMS**	Client ID: **INFLUENT**		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	563.7	50	500000		113	60.5	156				
Benzene	477.5	50	500000		95.5	70	135				
Chlorobenzene	488.0	50	500000		97.6	70.5	132				
Toluene	482.9	50	500000		96.6	70.5	137				
Trichloroethene	473.0	50	500000		94.6	71.8	139				
Surr: 4-Bromofluorobenzene	436.8	0	500000		87.4	70.6	123				
Surr: Dibromofluoromethane	505.2	0	500000		101	78.7	124				
Surr: Toluene-d8	458.2	0	500000		91.6	81.3	120				

Sample ID: **1506347-001AMSD**	Client ID: **INFLUENT**		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	544.7	50	500000		109	60.5	156	563700	3.43	20	
Benzene	462.3	50	500000		92.5	70	135	477500	3.23	20	
Chlorobenzene	485.5	50	500000		97.1	70.5	132	488000	0.514	20	
Toluene	469.7	50	500000		93.9	70.5	137	482900	2.77	20	
Trichloroethene	443.6	50	500000		88.7	71.8	139	473000	6.42	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **1506347-001AMSD** Client ID: **INFLUENT** Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	447.2	0	500000		89.4	70.6	123	436800	0	0	
Surr: Dibromofluoromethane	510.6	0	500000		102	78.7	124	505200	0	0	
Surr: Toluene-d8	462.5	0	500000		92.5	81.3	120	458200	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208482

Sample ID: **MB-208482** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208482** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249241**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1016	0.00500	100.0		102	80	120				
Copper	0.1039	0.00200	100.0		104	80	120				
Lead	0.08935	0.00100	100.0		89.3	80	120				
Zinc	0.09633	0.0100	100.0		96.3	80	120				

Sample ID: **1506270-002CMS** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249244**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1039	0.00500	100.0		104	75	125				
Copper	0.09911	0.00200	100.0	3.566	95.5	75	125				
Lead	0.08289	0.00100	100.0		82.9	75	125				
Zinc	0.3560	0.0100	100.0	279.9	76.1	75	125				

Sample ID: **1506270-002CMSD** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1016	0.00500	100.0		102	75	125	103.9	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208482

Sample ID: **1506270-002CMSD** Client ID: **MW-106D** Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09591	0.00200	100.0	3.566	92.3	75	125	99.11	3.28	20	
Lead	0.08076	0.00100	100.0		80.8	75	125	82.89	2.60	20	
Zinc	0.3532	0.0100	100.0	279.9	73.3	75	125	356.0	0.785	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208578

Sample ID: **MB-208578** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257480**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500		99.32							
Copper	BRL	0.00200		97.64							
Lead	BRL	0.00100		102.6							
Zinc	BRL	0.0100		102.3							

Sample ID: **LCS-208578** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09932	0.00500	100.0	1.810	97.5	80	120				
Copper	0.09764	0.00200	100.0		97.6	80	120				
Lead	0.1026	0.00100	100.0		103	80	120				
Zinc	0.1023	0.0100	100.0		102	80	120				

Sample ID: **1506400-003BMS** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1020	0.00500	100.0	2.731	99.3	75	125				
Copper	0.09808	0.00200	100.0	5.528	92.6	75	125				
Lead	0.1029	0.00100	100.0	0.4040	102	75	125				
Zinc	0.1006	0.0100	100.0	6.559	94.0	75	125				

Sample ID: **1506400-003BMSD** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1043	0.00500	100.0	2.731	102	75	125	102.0	2.23	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: 208578

Sample ID: **1506400-003BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09957	0.00200	100.0	5.528	94.0	75	125	98.08	1.51	20	
Lead	0.1046	0.00100	100.0	0.4040	104	75	125	102.9	1.64	20	
Zinc	0.1019	0.0100	100.0	6.559	95.3	75	125	100.6	1.28	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: R293342

Sample ID: **MB-R293342** Client ID: Units: **mg/L** Prep Date: Run No: **293342**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248246**

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-R293342** Client ID: Units: **mg/L** Prep Date: Run No: **293342**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.007	0.25	5.000		100	90	110				
Sulfate	24.56	1.0	25.00		98.2	90	110				

Sample ID: **1506301-001BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293342**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248277**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.709	0.25	5.000		94.2	90	110				
Sulfate	24.95	1.0	25.00	0.6896	97.0	90	110				

Sample ID: **1506301-003BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293342**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248279**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.721	0.25	5.000		94.4	90	110				
Sulfate	25.13	1.0	25.00	0.8638	97.1	90	110				

Sample ID: **1506301-001BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293342**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248278**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.723	0.25	5.000		94.5	90	110	4.709	0.285	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: 1506270

ANALYTICAL QC SUMMARY REPORT

BatchID: R293342

Sample ID: **1506301-001BMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **293342**
BatchID: **R293342** Analysis Date: **06/03/2015** Seq No: **6248278**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	25.24	1.0	25.00	0.6896	98.2	90	110	24.95	1.16	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.

June 12, 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: 1506400

Analytical Environmental Services, Inc. received 8 samples on 6/3/2015 5:27:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 1506400

Date: 6/3/15 Page 1 of 1

COMPANY:	ADDRESS:
Amec Foster Wheeler E+I	1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3516	FAX: 770-421-3486
SAMPLED BY: D Howard, M Andrews, E Gwillen	SIGNATURE: David Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) H	N	I	I	I	No # of Containers
1	TB-06	6/3/15	1000	X		W	2	1	1	2	1	2
2	MW-111		1548	X		GW	2	1	1	2	1	7
3	MW-104D		1620	X		GW	2	1	1	2	1	7
4	MW-109		1300	X		GW	2	1	1	2	1	7
5	DUP-1		1200	X		GW		1	1	2	1	5
6	OW-1		1314	X		GW		1	1	2	1	5
7	OW-2		1511	X		GW		1	1	2	1	5
8	Temp Blank											
9												
10												
11												
12												
13												
14												

ANALYSIS REQUESTED: VOCs list; Tot metals list; Diss metals list; Pest; Nitrates & Nitrites

REMARKS

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:	6/3/15 1658	1:	6-3-15 16:58
2:	6-3-15 17:17	2: Katie Jenner	6-3-15 17:27
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be filtered by lab
* Metals: Arsenic, lead Cooper Zinc

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other

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

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1506400

Case Narrative

Sample Receiving Nonconformance:

Sample information on the Chain of Custody did not match that on the sample bottle labels for sample 1506400-007A. Samples were logged in using the information on the bottle label.

Samples DUP-1, OW-1, and OW-2 did not volatiles analysis selected on the Chain of Custody, but we received an extra set of vials labeled as DUP-2. Laboratory proceeded with the DUP-2 vials.

Ion Chromotography Analysis by Method 9056A:

Due to sample matrix, sample(s) 1506400-004E and -005D required dilution during preparation and/or analysis resulting in elevated reporting limits.

Metals Analysis by Method 6020:

Zinc was detected in Method Blank 208357 at 35.6 µg/L which was above reporting limit of 10 µg/L resulting in "B" qualified data for all samples with final Reporting Limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected.

Lead was detected in Method Blank 208357 at 1.03 µg/L which was above reporting limit of 1.0 µg/L resulting in "B" qualified data for all samples with final Reporting Limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected or were less than reporting limit and data is reportable with high bias.

Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-06
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 10:00:00 AM
Lab ID:	1506400-001	**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	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 16:32	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 16:31	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 16:31	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 16:31	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 16:31	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 16:31	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 16:31	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 16:31	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 16:31	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 16:31	NP
Surr: 4-Bromofluorobenzene	88.3	70.6-123		%REC	208368	1	06/05/2015 16:31	NP
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	208368	1	06/08/2015 16:32	NP
Surr: Dibromofluoromethane	94.4	78.7-124		%REC	208368	1	06/08/2015 16:32	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208368	1	06/05/2015 16:31	NP
Surr: Toluene-d8	94.8	81.3-120		%REC	208368	1	06/05/2015 16:31	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-06
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 10:00:00 AM
Lab ID:	1506400-001	**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	95.9	81.3-120		%REC	208368	1	06/08/2015 16:32	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-111
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 3:48:00 PM
Lab ID:	1506400-002	**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	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 16:56	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/05/2015 16:53	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/05/2015 16:53	NP
Acetone	BRL	0.050		mg/L	208368	1	06/05/2015 16:53	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Chlorobenzene	0.097	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/05/2015 16:53	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 16:53	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 16:53	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/05/2015 16:53	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 16:53	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/05/2015 16:53	NP
Surr: 4-Bromofluorobenzene	90.1	70.6-123		%REC	208368	1	06/08/2015 16:56	NP
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	208368	1	06/05/2015 16:53	NP
Surr: Dibromofluoromethane	89.7	78.7-124		%REC	208368	1	06/08/2015 16:56	NP
Surr: Dibromofluoromethane	107	78.7-124		%REC	208368	1	06/05/2015 16:53	NP
Surr: Toluene-d8	94.4	81.3-120		%REC	208368	1	06/08/2015 16:56	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-111
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 3:48:00 PM
Lab ID:	1506400-002	**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	94.6	81.3-120		%REC	208368	1	06/05/2015 16:53	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208357	1	06/05/2015 22:10	JS
Copper	0.0283	0.00200		mg/L	208357	1	06/05/2015 22:10	JS
Lead	BRL	0.00100		mg/L	208357	1	06/05/2015 22:10	JS
Zinc	5.40	0.0100	B	mg/L	208357	1	06/05/2015 22:10	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293454	1	06/04/2015 10:32	JW
Sulfate	560	10		mg/L	R293454	10	06/04/2015 10:46	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 20:38	JS
Copper	0.0503	0.00200		mg/L	208554	1	06/11/2015 20:38	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 20:38	JS
Zinc	5.65	0.0100		mg/L	208554	1	06/11/2015 20:38	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 15:36	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 15:36	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 15:36	SH
alpha-BHC	0.010	0.0050		mg/L	208431	100	06/08/2015 17:01	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 15:36	SH
beta-BHC	0.0043	0.00050		mg/L	208431	10	06/08/2015 16:43	SH
delta-BHC	0.034	0.0050		mg/L	208431	100	06/08/2015 17:01	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 15:36	SH
gamma-BHC	0.017	0.0050		mg/L	208431	100	06/08/2015 17:01	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 15:36	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 15:36	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 15:36	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 15:36	SH
Surr: Decachlorobiphenyl	71.5	14.6-130		%REC	208431	1	06/06/2015 15:36	SH
Surr: Tetrachloro-m-xylene	51.6	14.4-116		%REC	208431	1	06/06/2015 15:36	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104D
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 4:20:00 PM
Lab ID:	1506400-003	**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	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,1-Dichloroethane	0.028	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
1,4-Dioxane	20	7.5		mg/L	208368	50	06/08/2015 13:42	NP
2-Butanone	210	50		mg/L	208368	1000	06/08/2015 14:03	NP
4-Methyl-2-pentanone	100	5.0		mg/L	208368	500	06/08/2015 11:25	NP
Acetone	200	50		mg/L	208368	1000	06/08/2015 14:03	NP
Benzene	0.36	0.25		mg/L	208368	50	06/08/2015 13:42	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Chlorobenzene	0.020	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Chloroethane	0.10	0.010		mg/L	208368	1	06/05/2015 17:16	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 17:16	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Ethylbenzene	4.2	2.5		mg/L	208368	500	06/08/2015 11:25	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 17:16	NP
Isopropylbenzene	0.067	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Methylene chloride	0.052	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Naphthalene	0.12	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Tetrahydrofuran	49	5.0		mg/L	208368	500	06/08/2015 11:25	NP
Toluene	71	2.5		mg/L	208368	500	06/08/2015 11:25	NP
trans-1,2-Dichloroethene	0.040	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 17:16	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 17:16	NP
Xylenes, Total	21	2.5		mg/L	208368	500	06/08/2015 11:25	NP
Surr: 4-Bromofluorobenzene	103	70.6-123		%REC	208368	1	06/05/2015 17:16	NP
Surr: 4-Bromofluorobenzene	95	70.6-123		%REC	208368	50	06/08/2015 13:42	NP
Surr: 4-Bromofluorobenzene	94.1	70.6-123		%REC	208368	500	06/08/2015 11:25	NP
Surr: 4-Bromofluorobenzene	91.1	70.6-123		%REC	208368	1000	06/08/2015 14:03	NP
Surr: Dibromofluoromethane	92.8	78.7-124		%REC	208368	1	06/05/2015 17:16	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-104D
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 4:20:00 PM
Lab ID:	1506400-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				**(SW5030B)**				
Surr: Dibromofluoromethane	96.1	78.7-124		%REC	208368	50	06/08/2015 13:42	NP
Surr: Dibromofluoromethane	102	78.7-124		%REC	208368	500	06/08/2015 11:25	NP
Surr: Dibromofluoromethane	95.9	78.7-124		%REC	208368	1000	06/08/2015 14:03	NP
Surr: Toluene-d8	115	81.3-120		%REC	208368	1	06/05/2015 17:16	NP
Surr: Toluene-d8	101	81.3-120		%REC	208368	50	06/08/2015 13:42	NP
Surr: Toluene-d8	103	81.3-120		%REC	208368	500	06/08/2015 11:25	NP
Surr: Toluene-d8	98.8	81.3-120		%REC	208368	1000	06/08/2015 14:03	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208578	1	06/11/2015 19:17	JS
Copper	0.00553	0.00200		mg/L	208578	1	06/11/2015 19:17	JS
Lead	BRL	0.00100		mg/L	208578	1	06/11/2015 19:17	JS
Zinc	BRL	0.0100		mg/L	208578	1	06/11/2015 19:17	JS
ION SCAN SW9056A								
Nitrate	0.34	0.25		mg/L	R293454	1	06/04/2015 12:29	JW
Sulfate	BRL	1.0		mg/L	R293454	1	06/04/2015 12:29	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 20:44	JS
Copper	BRL	0.00200		mg/L	208554	1	06/11/2015 20:44	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 20:44	JS
Zinc	0.0250	0.0100		mg/L	208554	1	06/11/2015 20:44	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/08/2015 15:47	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/08/2015 15:47	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/08/2015 15:47	SH
alpha-BHC	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
beta-BHC	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
delta-BHC	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/08/2015 15:47	SH
gamma-BHC	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/08/2015 15:47	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/08/2015 15:47	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/08/2015 15:47	SH
Surr: Decachlorobiphenyl	79.8	14.6-130		%REC	208431	1	06/08/2015 15:47	SH
Surr: Tetrachloro-m-xylene	110	14.4-116		%REC	208431	1	06/08/2015 15:47	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-109
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 1:00:00 PM
Lab ID:	1506400-004	**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	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
1,4-Dioxane	BRL	0.15		mg/L	208368	1	06/08/2015 17:20	NP
2-Butanone	BRL	0.050		mg/L	208368	1	06/08/2015 12:33	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208368	1	06/08/2015 12:33	NP
Acetone	BRL	0.050		mg/L	208368	1	06/08/2015 12:33	NP
Benzene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Chlorobenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Chloroethane	BRL	0.010		mg/L	208368	1	06/08/2015 12:33	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/08/2015 12:33	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Ethylbenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/08/2015 12:33	NP
Isopropylbenzene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Methylene chloride	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Naphthalene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Tetrahydrofuran	BRL	0.010		mg/L	208368	1	06/08/2015 12:33	NP
Toluene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/08/2015 12:33	NP
Xylenes, Total	BRL	0.0050		mg/L	208368	1	06/08/2015 12:33	NP
Surr: 4-Bromofluorobenzene	89.2	70.6-123		%REC	208368	1	06/08/2015 12:33	NP
Surr: 4-Bromofluorobenzene	93.6	70.6-123		%REC	208368	1	06/08/2015 17:20	NP
Surr: Dibromofluoromethane	90	78.7-124		%REC	208368	1	06/08/2015 17:20	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208368	1	06/08/2015 12:33	NP
Surr: Toluene-d8	94.3	81.3-120		%REC	208368	1	06/08/2015 17:20	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-109
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 1:00:00 PM
Lab ID:	1506400-004	**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	94.4	81.3-120		%REC	208368	1	06/08/2015 12:33	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.181	0.00500		mg/L	208357	1	06/05/2015 22:20	JS
Copper	0.0782	0.00200		mg/L	208357	1	06/05/2015 22:20	JS
Lead	1.02	0.00100	B	mg/L	208357	1	06/05/2015 22:20	JS
Zinc	25.7	0.0500		mg/L	208357	5	06/09/2015 14:07	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R293454	10	06/04/2015 11:16	JW
Sulfate	1400	50		mg/L	R293454	50	06/04/2015 12:44	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	0.158	0.00500		mg/L	208554	1	06/11/2015 20:50	JS
Copper	0.0732	0.00200		mg/L	208554	1	06/11/2015 20:50	JS
Lead	0.565	0.00100		mg/L	208554	1	06/11/2015 20:50	JS
Zinc	29.2	0.100		mg/L	208554	10	06/12/2015 11:25	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 15:54	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 15:54	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 15:54	SH
alpha-BHC	0.029	0.0050		mg/L	208431	100	06/08/2015 17:38	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 15:54	SH
beta-BHC	0.0033	0.00050		mg/L	208431	10	06/08/2015 17:20	SH
delta-BHC	0.0032	0.00050		mg/L	208431	10	06/08/2015 17:20	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 15:54	SH
gamma-BHC	0.018	0.0050		mg/L	208431	100	06/08/2015 17:38	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 15:54	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 15:54	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 15:54	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 15:54	SH
Surr: Decachlorobiphenyl	78.8	14.6-130		%REC	208431	1	06/06/2015 15:54	SH
Surr: Tetrachloro-m-xylene	973	14.4-116	S	%REC	208431	1	06/06/2015 15:54	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-1
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 12:00:00 PM
Lab ID:	1506400-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.188	0.00500		mg/L	208357	1	06/05/2015 22:26	JS
Copper	0.0799	0.00200		mg/L	208357	1	06/05/2015 22:26	JS
Lead	1.13	0.00500		mg/L	208357	5	06/09/2015 14:23	JS
Zinc	24.7	0.0500		mg/L	208357	5	06/09/2015 14:23	JS
ION SCAN SW9056A								
Nitrate	BRL	2.5		mg/L	R293454	10	06/04/2015 11:30	JW
Sulfate	1300	50		mg/L	R293454	50	06/09/2015 12:37	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.155	0.00500		mg/L	208554	1	06/11/2015 20:57	JS
Copper	0.0716	0.00200		mg/L	208554	1	06/11/2015 20:57	JS
Lead	0.630	0.00100		mg/L	208554	1	06/11/2015 20:57	JS
Zinc	31.2	0.100		mg/L	208554	10	06/12/2015 11:31	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 16:12	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 16:12	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 16:12	SH
alpha-BHC	0.025	0.0050		mg/L	208431	100	06/08/2015 18:15	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:12	SH
beta-BHC	0.0030	0.00050		mg/L	208431	10	06/08/2015 17:57	SH
delta-BHC	0.0030	0.00050		mg/L	208431	10	06/08/2015 17:57	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 16:12	SH
gamma-BHC	0.015	0.0050		mg/L	208431	100	06/08/2015 18:15	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:12	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 16:12	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 16:12	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 16:12	SH
Surr: Decachlorobiphenyl	71.4	14.6-130		%REC	208431	1	06/06/2015 16:12	SH
Surr: Tetrachloro-m-xylene	913	14.4-116	S	%REC	208431	1	06/06/2015 16:12	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 1:14:00 PM
Lab ID:	1506400-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.0801	0.00500		mg/L	208357	1	06/05/2015 22:31	JS
Copper	0.250	0.00200		mg/L	208357	1	06/05/2015 22:31	JS
Lead	BRL	0.00100		mg/L	208357	1	06/05/2015 22:31	JS
Zinc	5.75	0.0100	B	mg/L	208357	1	06/05/2015 22:31	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293454	1	06/04/2015 13:58	JW
Sulfate	350	10		mg/L	R293454	10	06/04/2015 11:45	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.0226	0.00500		mg/L	208554	1	06/11/2015 21:03	JS
Copper	0.0869	0.00200		mg/L	208554	1	06/11/2015 21:03	JS
Lead	0.00135	0.00100		mg/L	208554	1	06/12/2015 11:50	JS
Zinc	5.90	0.0100		mg/L	208554	1	06/11/2015 21:03	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 16:31	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 16:31	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 16:31	SH
alpha-BHC	0.0066	0.00050		mg/L	208431	10	06/08/2015 18:33	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:31	SH
beta-BHC	0.0033	0.00050		mg/L	208431	10	06/08/2015 18:33	SH
delta-BHC	0.013	0.0025		mg/L	208431	50	06/08/2015 18:52	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 16:31	SH
gamma-BHC	0.0058	0.00050		mg/L	208431	10	06/08/2015 18:33	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:31	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 16:31	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 16:31	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 16:31	SH
Surr: Decachlorobiphenyl	83.2	14.6-130		%REC	208431	1	06/06/2015 16:31	SH
Surr: Tetrachloro-m-xylene	57.3	14.4-116		%REC	208431	1	06/06/2015 16:31	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 3:11:00 PM
Lab ID:	1506400-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.0321	0.00500		mg/L	208578	1	06/11/2015 20:31	JS
Copper	0.0645	0.00200		mg/L	208578	1	06/11/2015 20:31	JS
Lead	BRL	0.00100		mg/L	208578	1	06/11/2015 20:31	JS
Zinc	5.09	0.0100		mg/L	208578	1	06/11/2015 20:31	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293454	1	06/04/2015 12:00	JW
Sulfate	620	10		mg/L	R293454	10	06/04/2015 12:15	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	0.00919	0.00500		mg/L	208554	1	06/11/2015 21:09	JS
Copper	0.0291	0.00200		mg/L	208554	1	06/11/2015 21:09	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 21:09	JS
Zinc	4.52	0.0100		mg/L	208554	1	06/11/2015 21:09	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	0.00018	0.00010		mg/L	208431	1	06/06/2015 16:49	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 16:49	SH
4,4´-DDT	0.00021	0.00010		mg/L	208431	1	06/06/2015 16:49	SH
alpha-BHC	0.022	0.0050		mg/L	208431	100	06/09/2015 16:21	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:49	SH
beta-BHC	0.0052	0.00050		mg/L	208431	10	06/08/2015 19:10	SH
delta-BHC	0.063	0.0050		mg/L	208431	100	06/09/2015 16:21	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 16:49	SH
gamma-BHC	0.016	0.00050		mg/L	208431	10	06/08/2015 19:10	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 16:49	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 16:49	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 16:49	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 16:49	SH
Surr: Decachlorobiphenyl	79.3	14.6-130		%REC	208431	1	06/06/2015 16:49	SH
Surr: Tetrachloro-m-xylene	67.7	14.4-116		%REC	208431	1	06/06/2015 16:49	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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-2
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 12:00:00 PM
Lab ID:	1506400-008	**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	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,1-Dichloroethane	0.029	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
1,4-Dioxane	22	7.5		mg/L	208368	50	06/08/2015 17:45	NP
2-Butanone	220	50		mg/L	208368	1000	06/08/2015 14:26	NP
4-Methyl-2-pentanone	96	5.0		mg/L	208368	500	06/08/2015 11:47	NP
Acetone	220	50		mg/L	208368	1000	06/08/2015 14:26	NP
Benzene	0.33	0.25		mg/L	208368	50	06/08/2015 17:45	NP
Carbon disulfide	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Chlorobenzene	0.020	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Chloroethane	0.10	0.010		mg/L	208368	1	06/05/2015 18:01	NP
Chloroform	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Chloromethane	BRL	0.010		mg/L	208368	1	06/05/2015 18:01	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Cyclohexane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Ethylbenzene	4.2	2.5		mg/L	208368	500	06/08/2015 11:47	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208368	1	06/05/2015 18:01	NP
Isopropylbenzene	0.067	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Methylene chloride	0.053	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Naphthalene	0.12	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Styrene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Tetrachloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Tetrahydrofuran	48	5.0		mg/L	208368	500	06/08/2015 11:47	NP
Toluene	71	2.5		mg/L	208368	500	06/08/2015 11:47	NP
trans-1,2-Dichloroethene	0.041	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Trichloroethene	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208368	1	06/05/2015 18:01	NP
Vinyl chloride	BRL	0.0020		mg/L	208368	1	06/05/2015 18:01	NP
Xylenes, Total	21	2.5		mg/L	208368	500	06/08/2015 11:47	NP
Surr: 4-Bromofluorobenzene	104	70.6-123		%REC	208368	1	06/05/2015 18:01	NP
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	208368	50	06/08/2015 17:45	NP
Surr: 4-Bromofluorobenzene	95.5	70.6-123		%REC	208368	500	06/08/2015 11:47	NP
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	208368	1000	06/08/2015 14:26	NP
Surr: Dibromofluoromethane	90.9	78.7-124		%REC	208368	1	06/05/2015 18:01	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > 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:** 12-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-2
Project Name:	BFEL-Atlanta	**Collection Date:**	6/3/2015 12:00:00 PM
Lab ID:	1506400-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Surr: Dibromofluoromethane	89.7	78.7-124		%REC	208368	50	06/08/2015 17:45	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	208368	500	06/08/2015 11:47	NP
Surr: Dibromofluoromethane	98.3	78.7-124		%REC	208368	1000	06/08/2015 14:26	NP
Surr: Toluene-d8	106	81.3-120		%REC	208368	1	06/05/2015 18:01	NP
Surr: Toluene-d8	98.6	81.3-120		%REC	208368	50	06/08/2015 17:45	NP
Surr: Toluene-d8	103	81.3-120		%REC	208368	500	06/08/2015 11:47	NP
Surr: Toluene-d8	101	81.3-120		%REC	208368	1000	06/08/2015 14:26	NP

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC/Kennesaw Work Order Number 1506400

Checklist completed by Katie Forum 6/3/15
Signature Date

Carrier name: FedEx __ UPS __ Courier ✓ Client __ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.4°C Cooler #2 3.4°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 ~~✓~~ KF 6/5 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? KF Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506400

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506400-001A	TB-06	6/3/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506400-001A	TB-06	6/3/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506400-002A	MW-111	6/3/2015 3:48:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506400-002A	MW-111	6/3/2015 3:48:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506400-002B	MW-111	6/3/2015 3:48:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506400-002C	MW-111	6/3/2015 3:48:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-002D	MW-111	6/3/2015 3:48:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506400-002D	MW-111	6/3/2015 3:48:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-002E	MW-111	6/3/2015 3:48:00PM	Groundwater	ION SCAN			06/04/2015
1506400-003A	MW-104D	6/3/2015 4:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506400-003A	MW-104D	6/3/2015 4:20:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506400-003B	MW-104D	6/3/2015 4:20:00PM	Groundwater	Total Metals by ICP/MS		6/9/2015 5:00:00PM	06/11/2015
1506400-003C	MW-104D	6/3/2015 4:20:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-003D	MW-104D	6/3/2015 4:20:00PM	Groundwater	APPENDIX II CHLORINATED PESTICIDE		6/6/2015 10:00:00AM	06/08/2015
1506400-003D	MW-104D	6/3/2015 4:20:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-003E	MW-104D	6/3/2015 4:20:00PM	Groundwater	ION SCAN			06/04/2015
1506400-004A	MW-109	6/3/2015 1:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015
1506400-004B	MW-109	6/3/2015 1:00:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506400-004B	MW-109	6/3/2015 1:00:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/09/2015
1506400-004C	MW-109	6/3/2015 1:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-004C	MW-109	6/3/2015 1:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/12/2015
1506400-004D	MW-109	6/3/2015 1:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506400-004D	MW-109	6/3/2015 1:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-004E	MW-109	6/3/2015 1:00:00PM	Groundwater	ION SCAN			06/04/2015
1506400-005A	DUP-1	6/3/2015 12:00:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506400-005A	DUP-1	6/3/2015 12:00:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/09/2015
1506400-005B	DUP-1	6/3/2015 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-005B	DUP-1	6/3/2015 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/12/2015
1506400-005C	DUP-1	6/3/2015 12:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506400

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506400-005C	DUP-1	6/3/2015 12:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-005D	DUP-1	6/3/2015 12:00:00PM	Groundwater	ION SCAN			06/04/2015
1506400-005D	DUP-1	6/3/2015 12:00:00PM	Groundwater	ION SCAN			06/09/2015
1506400-006A	OW-1	6/3/2015 1:14:00PM	Groundwater	Total Metals by ICP/MS		6/4/2015 1:00:00PM	06/05/2015
1506400-006B	OW-1	6/3/2015 1:14:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-006B	OW-1	6/3/2015 1:14:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/12/2015
1506400-006C	OW-1	6/3/2015 1:14:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506400-006C	OW-1	6/3/2015 1:14:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-006D	OW-1	6/3/2015 1:14:00PM	Groundwater	ION SCAN			06/04/2015
1506400-007A	OW-2	6/3/2015 3:11:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506400-007B	OW-2	6/3/2015 3:11:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506400-007C	OW-2	6/3/2015 3:11:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506400-007C	OW-2	6/3/2015 3:11:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506400-007C	OW-2	6/3/2015 3:11:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/09/2015
1506400-007D	OW-2	6/3/2015 3:11:00PM	Groundwater	ION SCAN			06/04/2015
1506400-008A	DUP-2	6/3/2015 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/05/2015
1506400-008A	DUP-2	6/3/2015 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/4/2015 9:51:00AM	06/08/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208357

Sample ID: **MB-208357** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247724**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	0.001035	0.00100									B
Zinc	0.03568	0.0100									B

Sample ID: **LCS-208357** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247723**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09580	0.00500	100.0		95.8	80	120				
Copper	0.09411	0.00200	100.0	1.218	92.9	80	120				
Lead	0.09767	0.00100	100.0	1.056	96.6	80	120				B
Zinc	0.09571	0.0100	100.0		95.7	80	120				B

Sample ID: **1506270-002BMS** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247726**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1009	0.00500	100.0		101	75	125				
Copper	0.09472	0.00200	100.0	3.455	91.3	75	125				
Lead	0.09007	0.00100	100.0	0.7424	89.3	75	125				B
Zinc	0.3811	0.0100	100.0	286.0	95.1	75	125				B

Sample ID: **1506270-002BMSD** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09930	0.00500	100.0		99.3	75	125	100.9	1.58	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208357

Sample ID: **1506270-002BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/04/2015** Run No: **293316**
BatchID: **208357** Analysis Date: **06/05/2015** Seq No: **6247727**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09671	0.00200	100.0	3.455	93.3	75	125	94.72	2.07	20	
Lead	0.08514	0.00100	100.0	0.7424	84.4	75	125	90.07	5.62	20	B
Zinc	0.3703	0.0100	100.0	286.0	84.3	75	125	381.1	2.87	20	B

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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244043**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244043**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04437	0	50.00		88.7	70.6	123				
Surr: Dibromofluoromethane	0.05229	0	50.00		105	78.7	124				
Surr: Toluene-d8	0.04657	0	50.00		93.1	81.3	120				

Sample ID: **MB-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293377**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/08/2015** Seq No: **6248856**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.15									
Surr: 4-Bromofluorobenzene	0.04590	0	50.00		91.8	70.6	123				
Surr: Dibromofluoromethane	0.04615	0	50.00		92.3	78.7	124				
Surr: Toluene-d8	0.04766	0	50.00		95.3	81.3	120				

Sample ID: **LCS-208368** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244042**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05400	0.0050	50.00		108	64.2	137				
Benzene	0.04463	0.0050	50.00		89.3	72.8	128				
Chlorobenzene	0.04593	0.0050	50.00		91.9	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **LCS-208368**	Client ID:		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **LCS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244042**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.04343	0.0050	50.00		86.9	74.9	127				
Trichloroethene	0.04378	0.0050	50.00		87.6	70.5	134				
Surr: 4-Bromofluorobenzene	0.04490	0	50.00		89.8	70.6	123				
Surr: Dibromofluoromethane	0.05046	0	50.00		101	78.7	124				
Surr: Toluene-d8	0.04566	0	50.00		91.3	81.3	120				

Sample ID: **1506347-001AMS**	Client ID: **INFLUENT**		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **MS**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244713**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	563.7	50	500000		113	60.5	156				
Benzene	477.5	50	500000		95.5	70	135				
Chlorobenzene	488.0	50	500000		97.6	70.5	132				
Toluene	482.9	50	500000		96.6	70.5	137				
Trichloroethene	473.0	50	500000		94.6	71.8	139				
Surr: 4-Bromofluorobenzene	436.8	0	500000		87.4	70.6	123				
Surr: Dibromofluoromethane	505.2	0	500000		101	78.7	124				
Surr: Toluene-d8	458.2	0	500000		91.6	81.3	120				

Sample ID: **1506347-001AMSD**	Client ID: **INFLUENT**		Units: **mg/L**	Prep Date: **06/04/2015**	Run No: **293175**
SampleType: **MSD**	TestCode: **Volatile Organic Compounds by GC/MS SW8260B**		BatchID: **208368**	Analysis Date: **06/04/2015**	Seq No: **6244714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	544.7	50	500000		109	60.5	156	563700	3.43	20	
Benzene	462.3	50	500000		92.5	70	135	477500	3.23	20	
Chlorobenzene	485.5	50	500000		97.1	70.5	132	488000	0.514	20	
Toluene	469.7	50	500000		93.9	70.5	137	482900	2.77	20	
Trichloroethene	443.6	50	500000		88.7	71.8	139	473000	6.42	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208368

Sample ID: **1506347-001AMSD** Client ID: **INFLUENT** Units: **mg/L** Prep Date: **06/04/2015** Run No: **293175**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208368** Analysis Date: **06/04/2015** Seq No: **6244714**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	447.2	0	500000		89.4	70.6	123	436800	0	0	
Surr: Dibromofluoromethane	510.6	0	500000		102	78.7	124	505200	0	0	
Surr: Toluene-d8	462.5	0	500000		92.5	81.3	120	458200	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208431

Sample ID: **MB-208431** Client ID: Units: **mg/L** Prep Date: **06/06/2015** Run No: **293469**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208431** Analysis Date: **06/06/2015** Seq No: **6251467**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000340	0	0.5000		67.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.000117	0	0.5000		23.4	14.4	116				

Sample ID: **LCS-208431** Client ID: Units: **mg/L** Prep Date: **06/06/2015** Run No: **293494**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208431** Analysis Date: **06/08/2015** Seq No: **6251966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000944	0.00010	1.000		94.4	52.5	140				
Dieldrin	0.000921	0.00010	1.000		92.1	59.5	137				
gamma-BHC	0.000839	0.000050	1.000		83.9	46	134				
Heptachlor	0.000801	0.000050	1.000		80.1	44.7	127				
Surr: Decachlorobiphenyl	0.000404	0	0.5000		80.7	14.6	130				
Surr: Tetrachloro-m-xylene	0.000293	0	0.5000		58.7	14.4	116				

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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208431

Sample ID: **1506400-003DMS**	Client ID: **MW-104D**	Units: **mg/L**	Prep Date: **06/06/2015**	Run No: **293494**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **208431**	Analysis Date: **06/08/2015**	Seq No: **6251968**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000858	0.00010	1.000		85.8	27.1	146				
Dieldrin	0.001041	0.00010	1.000		104	39.4	142				
gamma-BHC	0.000902	0.000050	1.000		90.2	34.5	144				
Heptachlor	0.000837	0.000050	1.000		83.7	33	138				
Surr: Decachlorobiphenyl	0.000375	0	0.5000		74.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.000542	0	0.5000		108	14.4	116				

Sample ID: **1506400-003DMSD**	Client ID: **MW-104D**	Units: **mg/L**	Prep Date: **06/06/2015**	Run No: **293494**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**	BatchID: **208431**	Analysis Date: **06/08/2015**	Seq No: **6251969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000881	0.00010	1.000		88.1	27.1	146	0.8580	2.62	21.2	
Dieldrin	0.001052	0.00010	1.000		105	39.4	142	1.041	1.01	20	
gamma-BHC	0.000914	0.000050	1.000		91.4	34.5	144	0.9025	1.31	23.1	
Heptachlor	0.000857	0.000050	1.000		85.7	33	138	0.8371	2.39	26.9	
Surr: Decachlorobiphenyl	0.000368	0	0.5000		73.6	14.6	130	0.3747	0	0	
Surr: Tetrachloro-m-xylene	0.000528	0	0.5000		106	14.4	116	0.5416	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **MB-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08970	0.00500	100.0		89.7	80	120				
Copper	0.08854	0.00200	100.0		88.5	80	120				
Lead	0.09564	0.00100	100.0		95.6	80	120				
Zinc	0.08604	0.0100	100.0		86.0	80	120				

Sample ID: **1506400-002CMS** Client ID: **MW-111** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09329	0.00500	100.0	0.3764	92.9	75	125				
Copper	0.1088	0.00200	100.0	48.08	60.7	75	125				S
Lead	0.08800	0.00100	100.0		88.0	75	125				
Zinc	5.265	0.0100	100.0	5053	212	75	125				S

Sample ID: **1506400-002CMSD** Client ID: **MW-111** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09273	0.00500	100.0	0.3764	92.4	75	125	93.29	0.606	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **1506400-002CMSD** Client ID: **MW-111** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1074	0.00200	100.0	48.08	59.3	75	125	108.8	1.29	20	S
Lead	0.08512	0.00100	100.0		85.1	75	125	88.00	3.32	20	
Zinc	5.245	0.0100	100.0	5053	191	75	125	5265	0.385	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208578

Sample ID: **MB-208578** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257480**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500		99.32							
Copper	BRL	0.00200		97.64							
Lead	BRL	0.00100		102.6							
Zinc	BRL	0.0100		102.3							

Sample ID: **LCS-208578** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257479**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09932	0.00500	100.0	1.810	97.5	80	120				
Copper	0.09764	0.00200	100.0		97.6	80	120				
Lead	0.1026	0.00100	100.0		103	80	120				
Zinc	0.1023	0.0100	100.0		102	80	120				

Sample ID: **1506400-003BMS** Client ID: **MW-104D** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257482**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1020	0.00500	100.0	2.731	99.3	75	125				
Copper	0.09808	0.00200	100.0	5.528	92.6	75	125				
Lead	0.1029	0.00100	100.0	0.4040	102	75	125				
Zinc	0.1006	0.0100	100.0	6.559	94.0	75	125				

Sample ID: **1506400-003BMSD** Client ID: **MW-104D** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1043	0.00500	100.0	2.731	102	75	125	102.0	2.23	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: 208578

Sample ID: **1506400-003BMSD** Client ID: **MW-104D** Units: **mg/L** Prep Date: **06/09/2015** Run No: **293717**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208578** Analysis Date: **06/11/2015** Seq No: **6257483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09957	0.00200	100.0	5.528	94.0	75	125	98.08	1.51	20	
Lead	0.1046	0.00100	100.0	0.4040	104	75	125	102.9	1.64	20	
Zinc	0.1019	0.0100	100.0	6.559	95.3	75	125	100.6	1.28	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: R293454

Sample ID: **MB-R293454** Client ID: Units: **mg/L** Prep Date: Run No: **293454**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293454** Analysis Date: **06/04/2015** Seq No: **6251316**

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-R293454** Client ID: Units: **mg/L** Prep Date: Run No: **293454**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293454** Analysis Date: **06/04/2015** Seq No: **6251315**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.816	0.25	5.000		96.3	90	110				
Sulfate	24.37	1.0	25.00		97.5	90	110				

Sample ID: **1506493-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293454**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293454** Analysis Date: **06/04/2015** Seq No: **6251334**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	46.00	2.5	50.00		92.0	90	110				
Sulfate	272.9	10	250.0	33.50	95.7	90	110				

Sample ID: **1506494-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293454**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293454** Analysis Date: **06/04/2015** Seq No: **6251340**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.42	2.5	50.00	4.163	90.5	90	110				
Sulfate	268.6	10	250.0	29.63	95.6	90	110				

Sample ID: **1506493-002BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293454**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293454** Analysis Date: **06/04/2015** Seq No: **6251335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	45.78	2.5	50.00		91.6	90	110	46.00	0.479	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: 1506400

ANALYTICAL QC SUMMARY REPORT

BatchID: R293454

Sample ID: **1506493-002BMSD**	Client ID:		Units: **mg/L**	Prep Date:	Run No: **293454**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**		BatchID: **R293454**	Analysis Date: **06/04/2015**	Seq No: **6251335**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	274.3	10	250.0	33.50	96.3	90	110	272.9	0.528	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.

June 11, 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: 1506575

Analytical Environmental Services, Inc. received 13 samples on 6/4/2015 5:32:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 1506575

Date: 6/4/15 Page 1 of 1

COMPANY: Amec Foster Wheeler E+I
ADDRESS: 1075 Big Shanty Rd Ste 100 Kennesaw, GA 30144
PHONE: 770-421-3516
FAX: 770-421-3486
SAMPLED BY: D Howard/M Andrews/E Guillen
SIGNATURE: Daniel Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs List	Tot metals list	Diss metals list	Pest	Nitrates + Sulfates	REMARKS	No # of Containers
	PRESERVATION (See codes)												
1	TB-07	6/4/15	1000	X		W	1						2
2	SW-2010-17		1140	X		SW			1	2	1		4
3	SW-2010-15		1153	X		SW			1	2	1		4
4	SW-2010-14		1200	X		SW			1	2	1		4
5	InFlow-2		1220	X		SW			1	2	1		4
6	SW-2014-20		1225	X		SW			1	2	1		4
7	SW-2010-10		1305	X		SW			1	2	1		4
8	SW-2014-21		1332	X		SW			1	2	1		4
9	InFlow-1		1325	X		SW			1	2	1		4
10	SW-2010-11		1340	X		SW			1	2	1		4
11	DUP-3		1200	X		SW			1	2	1		4
12	SW-2010-5		1435	X		SW			1	2	1		4
13	MW-120		1530	X		GW	2	1	1	2	1		7
14	Temp Blank												

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

RELINQUISHED BY / DATE/TIME
1: Daniel Howard 6/4/15 4:55
2: 6-4-15 5:32
3:

RECEIVED BY / DATE/TIME
1: 6-4-15 4:55
2: Tanya Bellow 6/4/15 5:32
3:

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

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

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by lab
* Metals list: Arsenic, lead Copper, Zinc

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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-07
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 10:00:00 AM
Lab ID:	1506575-001	**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	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/10/2015 11:03	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/08/2015 19:26	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/08/2015 19:26	NP
Acetone	BRL	0.050		mg/L	208532	1	06/08/2015 19:26	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/08/2015 19:26	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/08/2015 19:26	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/08/2015 19:26	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/08/2015 19:26	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/08/2015 19:26	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/08/2015 19:26	NP
Surr: 4-Bromofluorobenzene	79.5	70.6-123		%REC	208532	1	06/10/2015 11:03	NP
Surr: 4-Bromofluorobenzene	89.5	70.6-123		%REC	208532	1	06/08/2015 19:26	NP
Surr: Dibromofluoromethane	92	78.7-124		%REC	208532	1	06/10/2015 11:03	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	208532	1	06/08/2015 19:26	NP
Surr: Toluene-d8	84.1	81.3-120		%REC	208532	1	06/10/2015 11:03	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-07
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 10:00:00 AM
Lab ID:	1506575-001	**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	93.2	81.3-120		%REC	208532	1	06/08/2015 19:26	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-17
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 11:40:00 AM
Lab ID:	1506575-002	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.7	0.25		mg/L	R293539	1	06/05/2015 10:21	JW
Sulfate	110	10		mg/L	R293539	10	06/05/2015 14:02	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:24	JS
Copper	0.00947	0.00200		mg/L	208482	1	06/08/2015 21:24	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:24	JS
Zinc	0.697	0.0100		mg/L	208482	1	06/08/2015 21:24	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 17:08	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 17:08	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 17:08	SH
alpha-BHC	0.00020	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
beta-BHC	0.00048	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
delta-BHC	0.00023	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 17:08	SH
gamma-BHC	0.000068	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 17:08	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 17:08	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 17:08	SH
Surr: Decachlorobiphenyl	80.7	14.6-130		%REC	208431	1	06/06/2015 17:08	SH
Surr: Tetrachloro-m-xylene	64.5	14.4-116		%REC	208431	1	06/06/2015 17:08	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-15
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 11:53:00 AM
Lab ID:	1506575-003	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.7	0.25		mg/L	R293539	1	06/05/2015 10:36	JW
Sulfate	110	10		mg/L	R293539	10	06/05/2015 14:17	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:30	JS
Copper	0.0108	0.00200		mg/L	208482	1	06/08/2015 21:30	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:30	JS
Zinc	0.693	0.0100		mg/L	208482	1	06/08/2015 21:30	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 17:26	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 17:26	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 17:26	SH
alpha-BHC	0.00017	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
beta-BHC	0.00045	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
delta-BHC	0.00021	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 17:26	SH
gamma-BHC	0.000057	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 17:26	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 17:26	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 17:26	SH
Surr: Decachlorobiphenyl	79.1	14.6-130		%REC	208431	1	06/06/2015 17:26	SH
Surr: Tetrachloro-m-xylene	53.7	14.4-116		%REC	208431	1	06/06/2015 17:26	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-14
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 12:00:00 PM
Lab ID:	1506575-004	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.8	0.25		mg/L	R293539	1	06/05/2015 10:51	JW
Sulfate	110	10		mg/L	R293539	10	06/05/2015 14:31	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:35	JS
Copper	0.0150	0.00200		mg/L	208482	1	06/08/2015 21:35	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:35	JS
Zinc	0.852	0.0100		mg/L	208482	1	06/08/2015 21:35	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 17:44	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 17:44	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 17:44	SH
alpha-BHC	0.00026	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
beta-BHC	0.00055	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
delta-BHC	0.00026	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 17:44	SH
gamma-BHC	0.000083	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 17:44	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 17:44	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 17:44	SH
Surr: Decachlorobiphenyl	86.6	14.6-130		%REC	208431	1	06/06/2015 17:44	SH
Surr: Tetrachloro-m-xylene	77.9	14.4-116		%REC	208431	1	06/06/2015 17:44	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	INFLOW-2
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 12:20:00 PM
Lab ID:	1506575-005	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293539	1	06/05/2015 11:06	JW
Sulfate	49	1.0		mg/L	R293539	1	06/05/2015 11:06	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:40	JS
Copper	BRL	0.00200		mg/L	208482	1	06/08/2015 21:40	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:40	JS
Zinc	BRL	0.0100		mg/L	208482	1	06/08/2015 21:40	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 18:03	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 18:03	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 18:03	SH
alpha-BHC	BRL	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
beta-BHC	0.000073	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
delta-BHC	0.000061	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 18:03	SH
gamma-BHC	BRL	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 18:03	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 18:03	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 18:03	SH
Surr: Decachlorobiphenyl	73	14.6-130		%REC	208431	1	06/06/2015 18:03	SH
Surr: Tetrachloro-m-xylene	52.4	14.4-116		%REC	208431	1	06/06/2015 18:03	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2014-20
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 12:25:00 PM
Lab ID:	1506575-006	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	7.1	0.25		mg/L	R293539	1	06/05/2015 11:20	JW
Sulfate	270	10		mg/L	R293539	10	06/05/2015 14:46	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:45	JS
Copper	0.148	0.00200		mg/L	208482	1	06/08/2015 21:45	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:45	JS
Zinc	5.86	0.0100		mg/L	208482	1	06/08/2015 21:45	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 18:21	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 18:21	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 18:21	SH
alpha-BHC	0.00033	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
beta-BHC	0.0022	0.00050		mg/L	208431	10	06/08/2015 19:47	SH
delta-BHC	0.00030	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 18:21	SH
gamma-BHC	0.00016	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 18:21	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 18:21	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 18:21	SH
Surr: Decachlorobiphenyl	83.7	14.6-130		%REC	208431	1	06/06/2015 18:21	SH
Surr: Tetrachloro-m-xylene	123	14.4-116	S	%REC	208431	1	06/06/2015 18:21	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-10
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 1:05:00 PM
Lab ID:	1506575-007	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.3	0.25		mg/L	R293539	1	06/05/2015 11:35	JW
Sulfate	80	1.0		mg/L	R293539	1	06/05/2015 11:35	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:51	JS
Copper	0.00540	0.00200		mg/L	208482	1	06/08/2015 21:51	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:51	JS
Zinc	0.407	0.0100		mg/L	208482	1	06/08/2015 21:51	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 18:39	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 18:39	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 18:39	SH
alpha-BHC	0.00011	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
beta-BHC	0.00024	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
delta-BHC	0.00014	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 18:39	SH
gamma-BHC	0.000054	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 18:39	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 18:39	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 18:39	SH
Surr: Decachlorobiphenyl	80.3	14.6-130		%REC	208431	1	06/06/2015 18:39	SH
Surr: Tetrachloro-m-xylene	45	14.4-116		%REC	208431	1	06/06/2015 18:39	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2014-21
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 1:32:00 PM
Lab ID:	1506575-008	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	8.4	0.25		mg/L	R293539	1	06/05/2015 11:50	JW
Sulfate	310	10		mg/L	R293539	10	06/05/2015 15:01	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 21:56	JS
Copper	0.348	0.00200		mg/L	208482	1	06/08/2015 21:56	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 21:56	JS
Zinc	7.05	0.0100		mg/L	208482	1	06/08/2015 21:56	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 18:58	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 18:58	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 18:58	SH
alpha-BHC	0.00025	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
beta-BHC	0.0022	0.00050		mg/L	208431	10	06/08/2015 20:06	SH
delta-BHC	0.00022	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 18:58	SH
gamma-BHC	0.00013	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 18:58	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 18:58	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 18:58	SH
Surr: Decachlorobiphenyl	87	14.6-130		%REC	208431	1	06/06/2015 18:58	SH
Surr: Tetrachloro-m-xylene	74.3	14.4-116		%REC	208431	1	06/06/2015 18:58	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	INFLOW-1
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 1:25:00 PM
Lab ID:	1506575-009	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	7.8	0.25		mg/L	R293539	1	06/05/2015 12:04	JW
Sulfate	280	10		mg/L	R293539	10	06/05/2015 15:16	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 22:01	JS
Copper	0.246	0.00200		mg/L	208482	1	06/08/2015 22:01	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 22:01	JS
Zinc	6.62	0.0100		mg/L	208482	1	06/08/2015 22:01	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 19:16	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 19:16	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 19:16	SH
alpha-BHC	0.00022	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
beta-BHC	0.0019	0.00050		mg/L	208431	10	06/08/2015 20:24	SH
delta-BHC	0.00024	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 19:16	SH
gamma-BHC	0.00012	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 19:16	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 19:16	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 19:16	SH
Surr: Decachlorobiphenyl	83.6	14.6-130		%REC	208431	1	06/06/2015 19:16	SH
Surr: Tetrachloro-m-xylene	69.4	14.4-116		%REC	208431	1	06/06/2015 19:16	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-11
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 1:40:00 PM
Lab ID:	1506575-010	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.3	0.25		mg/L	R293539	1	06/05/2015 12:19	JW
Sulfate	82	1.0		mg/L	R293539	1	06/05/2015 12:19	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 22:07	JS
Copper	0.00514	0.00200		mg/L	208482	1	06/08/2015 22:07	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 22:07	JS
Zinc	0.406	0.0100		mg/L	208482	1	06/08/2015 22:07	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 19:35	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 19:35	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 19:35	SH
alpha-BHC	0.00015	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
beta-BHC	0.00024	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
delta-BHC	0.00015	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 19:35	SH
gamma-BHC	0.000069	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 19:35	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 19:35	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 19:35	SH
Surr: Decachlorobiphenyl	79.5	14.6-130		%REC	208431	1	06/06/2015 19:35	SH
Surr: Tetrachloro-m-xylene	66.3	14.4-116		%REC	208431	1	06/06/2015 19:35	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	DUP-3
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 12:00:00 PM
Lab ID:	1506575-011	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.2	0.25		mg/L	R293539	1	06/05/2015 12:34	JW
Sulfate	79	1.0		mg/L	R293539	1	06/05/2015 12:34	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 22:12	JS
Copper	0.00504	0.00200		mg/L	208482	1	06/08/2015 22:12	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 22:12	JS
Zinc	0.389	0.0100		mg/L	208482	1	06/08/2015 22:12	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 19:53	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 19:53	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 19:53	SH
alpha-BHC	0.00015	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
beta-BHC	0.00024	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
delta-BHC	0.00016	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 19:53	SH
gamma-BHC	0.000066	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 19:53	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 19:53	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 19:53	SH
Surr: Decachlorobiphenyl	85.1	14.6-130		%REC	208431	1	06/06/2015 19:53	SH
Surr: Tetrachloro-m-xylene	76	14.4-116		%REC	208431	1	06/06/2015 19:53	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW-2010-5
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 2:35:00 PM
Lab ID:	1506575-012	**Matrix:**	Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	1.2	0.25		mg/L	R293539	1	06/05/2015 13:33	JW
Sulfate	78	1.0		mg/L	R293539	1	06/05/2015 13:33	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 22:27	JS
Copper	0.00517	0.00200		mg/L	208482	1	06/08/2015 22:27	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 22:27	JS
Zinc	0.444	0.0100		mg/L	208482	1	06/08/2015 22:27	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 20:12	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 20:12	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 20:12	SH
alpha-BHC	0.000062	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
beta-BHC	0.00021	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
delta-BHC	0.000091	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 20:12	SH
gamma-BHC	BRL	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 20:12	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 20:12	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 20:12	SH
Surr: Decachlorobiphenyl	86.6	14.6-130		%REC	208431	1	06/06/2015 20:12	SH
Surr: Tetrachloro-m-xylene	67.1	14.4-116		%REC	208431	1	06/06/2015 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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-120
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 3:30:00 PM
Lab ID:	1506575-013	**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	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
1,4-Dioxane	0.22	0.15		mg/L	208532	1	06/10/2015 11:30	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/08/2015 19:48	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/08/2015 19:48	NP
Acetone	BRL	0.050		mg/L	208532	1	06/08/2015 19:48	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/08/2015 19:48	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/08/2015 19:48	NP
cis-1,2-Dichloroethene	0.0071	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/08/2015 19:48	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/08/2015 19:48	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/08/2015 19:48	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/08/2015 19:48	NP
Surr: 4-Bromofluorobenzene	82.8	70.6-123		%REC	208532	1	06/10/2015 11:30	NP
Surr: 4-Bromofluorobenzene	88.2	70.6-123		%REC	208532	1	06/08/2015 19:48	NP
Surr: Dibromofluoromethane	93.7	78.7-124		%REC	208532	1	06/10/2015 11:30	NP
Surr: Dibromofluoromethane	101	78.7-124		%REC	208532	1	06/08/2015 19:48	NP
Surr: Toluene-d8	86.4	81.3-120		%REC	208532	1	06/10/2015 11:30	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:** 11-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-120
Project Name:	BFEL-Atlanta	**Collection Date:**	6/4/2015 3:30:00 PM
Lab ID:	1506575-013	**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	94.5	81.3-120		%REC	208532	1	06/08/2015 19:48	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208356	1	06/08/2015 16:38	JS
Copper	0.00630	0.00200		mg/L	208356	1	06/08/2015 16:38	JS
Lead	BRL	0.00100		mg/L	208356	1	06/08/2015 16:38	JS
Zinc	0.533	0.0100		mg/L	208356	1	06/08/2015 16:38	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293539	1	06/05/2015 13:47	JW
Sulfate	170	10		mg/L	R293539	10	06/05/2015 15:30	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208482	1	06/08/2015 22:32	JS
Copper	0.00268	0.00200		mg/L	208482	1	06/08/2015 22:32	JS
Lead	BRL	0.00100		mg/L	208482	1	06/08/2015 22:32	JS
Zinc	0.458	0.0100		mg/L	208482	1	06/08/2015 22:32	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208431	1	06/06/2015 20:30	SH
4,4´-DDE	BRL	0.00010		mg/L	208431	1	06/06/2015 20:30	SH
4,4´-DDT	BRL	0.00010		mg/L	208431	1	06/06/2015 20:30	SH
alpha-BHC	0.0012	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
alpha-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
beta-BHC	0.0013	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
delta-BHC	0.0011	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
Dieldrin	BRL	0.00010		mg/L	208431	1	06/06/2015 20:30	SH
gamma-BHC	BRL	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
gamma-Chlordane	BRL	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
Heptachlor	BRL	0.000050		mg/L	208431	1	06/06/2015 20:30	SH
Methoxychlor	BRL	0.00050		mg/L	208431	1	06/06/2015 20:30	SH
Toxaphene	BRL	0.0050		mg/L	208431	1	06/06/2015 20:30	SH
Surr: Decachlorobiphenyl	88.2	14.6-130		%REC	208431	1	06/06/2015 20:30	SH
Surr: Tetrachloro-m-xylene	48.8	14.4-116		%REC	208431	1	06/06/2015 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.

Sample/Cooler Receipt Checklist

Client AMEC | Kennesaw Work Order Number 1506575

Checklist completed by Tanya D. Ellis
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 Cooler #2 3.5 Cooler #3 3.5 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 Tanya

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Aes_server\I\Sample Receipt\My Documents\COCs and pH Adjustment Sheet\Sample_Cooler_Recipt_Checklist_Rev1.rtf

Analytical Environmental Services, Inc

Date: 11-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506575

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506575-001A	TB-07	6/4/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/08/2015
1506575-001A	TB-07	6/4/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506575-002A	SW-2010-17	6/4/2015 11:40:00AM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-002B	SW-2010-17	6/4/2015 11:40:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-002C	SW-2010-17	6/4/2015 11:40:00AM	Surface Water	ION SCAN			06/05/2015
1506575-003A	SW-2010-15	6/4/2015 11:53:00AM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-003B	SW-2010-15	6/4/2015 11:53:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-003C	SW-2010-15	6/4/2015 11:53:00AM	Surface Water	ION SCAN			06/05/2015
1506575-004A	SW-2010-14	6/4/2015 12:00:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-004B	SW-2010-14	6/4/2015 12:00:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-004C	SW-2010-14	6/4/2015 12:00:00PM	Surface Water	ION SCAN			06/05/2015
1506575-005A	INFLOW-2	6/4/2015 12:20:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-005B	INFLOW-2	6/4/2015 12:20:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-005C	INFLOW-2	6/4/2015 12:20:00PM	Surface Water	ION SCAN			06/05/2015
1506575-006A	SW-2014-20	6/4/2015 12:25:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-006B	SW-2014-20	6/4/2015 12:25:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-006B	SW-2014-20	6/4/2015 12:25:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506575-006C	SW-2014-20	6/4/2015 12:25:00PM	Surface Water	ION SCAN			06/05/2015
1506575-007A	SW-2010-10	6/4/2015 1:05:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-007B	SW-2010-10	6/4/2015 1:05:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-007C	SW-2010-10	6/4/2015 1:05:00PM	Surface Water	ION SCAN			06/05/2015
1506575-008A	SW-2014-21	6/4/2015 1:32:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-008B	SW-2014-21	6/4/2015 1:32:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-008B	SW-2014-21	6/4/2015 1:32:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506575-008C	SW-2014-21	6/4/2015 1:32:00PM	Surface Water	ION SCAN			06/05/2015
1506575-009A	INFLOW-1	6/4/2015 1:25:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-009B	INFLOW-1	6/4/2015 1:25:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-009B	INFLOW-1	6/4/2015 1:25:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/08/2015
1506575-009C	INFLOW-1	6/4/2015 1:25:00PM	Surface Water	ION SCAN			06/05/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506575

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506575-010A	SW-2010-11	6/4/2015 1:40:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-010B	SW-2010-11	6/4/2015 1:40:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-010C	SW-2010-11	6/4/2015 1:40:00PM	Surface Water	ION SCAN			06/05/2015
1506575-011A	DUP-3	6/4/2015 12:00:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-011B	DUP-3	6/4/2015 12:00:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-011C	DUP-3	6/4/2015 12:00:00PM	Surface Water	ION SCAN			06/05/2015
1506575-012A	SW-2010-5	6/4/2015 2:35:00PM	Surface Water	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015
1506575-012B	SW-2010-5	6/4/2015 2:35:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-012C	SW-2010-5	6/4/2015 2:35:00PM	Surface Water	ION SCAN			06/05/2015
1506575-013A	MW-120	6/4/2015 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/08/2015
1506575-013A	MW-120	6/4/2015 3:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506575-013B	MW-120	6/4/2015 3:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/6/2015 10:00:00AM	06/06/2015
1506575-013C	MW-120	6/4/2015 3:30:00PM	Groundwater	ION SCAN			06/05/2015
1506575-013D	MW-120	6/4/2015 3:30:00PM	Groundwater	Total Metals by ICP/MS		6/5/2015 2:15:00PM	06/08/2015
1506575-013E	MW-120	6/4/2015 3:30:00PM	Groundwater	Dissolved Metals by ICP/MS		6/8/2015 12:30:31PM	06/08/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208356

Sample ID: **MB-208356** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293439**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208356** Analysis Date: **06/05/2015** Seq No: **6250815**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208356** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293439**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208356** Analysis Date: **06/05/2015** Seq No: **6250814**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09378	0.00500	100.0		93.8	80	120				
Copper	0.08978	0.00200	100.0		89.8	80	120				
Lead	0.09456	0.00100	100.0		94.6	80	120				
Zinc	0.09329	0.0100	100.0		93.3	80	120				

Sample ID: **1506283-001BMS** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293439**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208356** Analysis Date: **06/05/2015** Seq No: **6250817**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09208	0.00500	100.0	0.9532	91.1	75	125				
Copper	0.09090	0.00200	100.0	1.995	88.9	75	125				
Lead	0.09247	0.00100	100.0	1.194	91.3	75	125				
Zinc	0.09348	0.0100	100.0	7.907	85.6	75	125				

Sample ID: **1506283-001BMSD** Client ID: Units: **mg/L** Prep Date: **06/04/2015** Run No: **293439**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208356** Analysis Date: **06/05/2015** Seq No: **6250818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09197	0.00500	100.0	0.9532	91.0	75	125	92.08	0.121	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208356

Sample ID: **1506283-001BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/04/2015** Run No: **293439**
BatchID: **208356** Analysis Date: **06/05/2015** Seq No: **6250818**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09036	0.00200	100.0	1.995	88.4	75	125	90.90	0.594	20	
Lead	0.09338	0.00100	100.0	1.194	92.2	75	125	92.47	0.981	20	
Zinc	0.09813	0.0100	100.0	7.907	90.2	75	125	93.48	4.86	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208431

Sample ID: **MB-208431** Client ID: Units: **mg/L** Prep Date: **06/06/2015** Run No: **293469**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208431** Analysis Date: **06/06/2015** Seq No: **6251467**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000340	0	0.5000		67.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.000117	0	0.5000		23.4	14.4	116				

Sample ID: **LCS-208431** Client ID: Units: **mg/L** Prep Date: **06/06/2015** Run No: **293494**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208431** Analysis Date: **06/08/2015** Seq No: **6251966**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000944	0.00010	1.000		94.4	52.5	140				
Dieldrin	0.000921	0.00010	1.000		92.1	59.5	137				
gamma-BHC	0.000839	0.000050	1.000		83.9	46	134				
Heptachlor	0.000801	0.000050	1.000		80.1	44.7	127				
Surr: Decachlorobiphenyl	0.000404	0	0.5000		80.7	14.6	130				
Surr: Tetrachloro-m-xylene	0.000293	0	0.5000		58.7	14.4	116				

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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208431

Sample ID: **1506400-003DMS**	Client ID:		Units: **mg/L**	Prep Date: **06/06/2015**	Run No: **293494**
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**		BatchID: **208431**	Analysis Date: **06/08/2015**	Seq No: **6251968**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000858	0.00010	1.000		85.8	27.1	146				
Dieldrin	0.001041	0.00010	1.000		104	39.4	142				
gamma-BHC	0.000902	0.000050	1.000		90.2	34.5	144				
Heptachlor	0.000837	0.000050	1.000		83.7	33	138				
Surr: Decachlorobiphenyl	0.000375	0	0.5000		74.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.000542	0	0.5000		108	14.4	116				

Sample ID: **1506400-003DMSD**	Client ID:		Units: **mg/L**	Prep Date: **06/06/2015**	Run No: **293494**
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**		BatchID: **208431**	Analysis Date: **06/08/2015**	Seq No: **6251969**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000881	0.00010	1.000		88.1	27.1	146	0.8580	2.62	21.2	
Dieldrin	0.001052	0.00010	1.000		105	39.4	142	1.041	1.01	20	
gamma-BHC	0.000914	0.000050	1.000		91.4	34.5	144	0.9025	1.31	23.1	
Heptachlor	0.000857	0.000050	1.000		85.7	33	138	0.8371	2.39	26.9	
Surr: Decachlorobiphenyl	0.000368	0	0.5000		73.6	14.6	130	0.3747	0	0	
Surr: Tetrachloro-m-xylene	0.000528	0	0.5000		106	14.4	116	0.5416	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208482

Sample ID: **MB-208482** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249242**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208482** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249241**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1016	0.00500	100.0		102	80	120				
Copper	0.1039	0.00200	100.0		104	80	120				
Lead	0.08935	0.00100	100.0		89.3	80	120				
Zinc	0.09633	0.0100	100.0		96.3	80	120				

Sample ID: **1506270-002CMS** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249244**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1039	0.00500	100.0		104	75	125				
Copper	0.09911	0.00200	100.0	3.566	95.5	75	125				
Lead	0.08289	0.00100	100.0		82.9	75	125				
Zinc	0.3560	0.0100	100.0	279.9	76.1	75	125				

Sample ID: **1506270-002CMSD** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1016	0.00500	100.0		102	75	125	103.9	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208482

Sample ID: **1506270-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/08/2015** Run No: **293400**
BatchID: **208482** Analysis Date: **06/08/2015** Seq No: **6249245**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09591	0.00200	100.0	3.566	92.3	75	125	99.11	3.28	20	
Lead	0.08076	0.00100	100.0		80.8	75	125	82.89	2.60	20	
Zinc	0.3532	0.0100	100.0	279.9	73.3	75	125	356.0	0.785	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04391	0	50.00		87.8	70.6	123				
Surr: Dibromofluoromethane	0.04968	0	50.00		99.4	78.7	124				
Surr: Toluene-d8	0.04606	0	50.00		92.1	81.3	120				

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293583**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/10/2015** Seq No: **6254211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.15									
Surr: 4-Bromofluorobenzene	0.04171	0	50.00		83.4	70.6	123				
Surr: Dibromofluoromethane	0.04487	0	50.00		89.7	78.7	124				
Surr: Toluene-d8	0.04193	0	50.00		83.9	81.3	120				

Sample ID: **LCS-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05502	0.0050	50.00		110	64.2	137				
Benzene	0.04850	0.0050	50.00		97.0	72.8	128				
Chlorobenzene	0.05073	0.0050	50.00		101	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **LCS-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.04870	0.0050	50.00		97.4	74.9	127				
Trichloroethene	0.04865	0.0050	50.00		97.3	70.5	134				
Surr: 4-Bromofluorobenzene	0.04429	0	50.00		88.6	70.6	123				
Surr: Dibromofluoromethane	0.04973	0	50.00		99.5	78.7	124				
Surr: Toluene-d8	0.04566	0	50.00		91.3	81.3	120				

Sample ID: **1506363-001AMS** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.736	0.25	2500		109	60.5	156				
Benzene	2.468	0.25	2500		98.7	70	135				
Chlorobenzene	2.490	0.25	2500		99.6	70.5	132				
Toluene	2.556	0.25	2500	46.50	100	70.5	137				
Trichloroethene	2.436	0.25	2500		97.4	71.8	139				
Surr: 4-Bromofluorobenzene	2.388	0	2500		95.5	70.6	123				
Surr: Dibromofluoromethane	2.478	0	2500		99.1	78.7	124				
Surr: Toluene-d8	2.344	0	2500		93.7	81.3	120				

Sample ID: **1506363-001AMSD** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.658	0.25	2500		106	60.5	156	2736	2.89	20	
Benzene	2.350	0.25	2500		94.0	70	135	2468	4.94	20	
Chlorobenzene	2.402	0.25	2500		96.1	70.5	132	2490	3.58	20	
Toluene	2.392	0.25	2500	46.50	93.8	70.5	137	2556	6.63	20	
Trichloroethene	2.314	0.25	2500		92.5	71.8	139	2436	5.14	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **1506363-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	2.386	0	2500		95.4	70.6	123	2388	0	0	
Surr: Dibromofluoromethane	2.474	0	2500		98.9	78.7	124	2478	0	0	
Surr: Toluene-d8	2.307	0	2500		92.3	81.3	120	2344	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: R293539

Sample ID: **MB-R293539** Client ID: Units: **mg/L** Prep Date: Run No: **293539**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293539** Analysis Date: **06/05/2015** Seq No: **6253500**

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-R293539** Client ID: Units: **mg/L** Prep Date: Run No: **293539**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293539** Analysis Date: **06/05/2015** Seq No: **6253499**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.659	0.25	5.000		93.2	90	110				
Sulfate	23.70	1.0	25.00		94.8	90	110				

Sample ID: **1506625-001BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293539**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293539** Analysis Date: **06/05/2015** Seq No: **6253526**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	78.75	2.5	50.00	28.11	101	90	110				
Sulfate	286.5	10	250.0	43.72	97.1	90	110				

Sample ID: **1506731-004AMS** Client ID: Units: **mg/L** Prep Date: Run No: **293539**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293539** Analysis Date: **06/05/2015** Seq No: **6253535**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	52.54	2.5	50.00	5.929	93.2	90	110				
Sulfate	246.6	10	250.0		98.7	90	110				

Sample ID: **1506625-001BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293539**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293539** Analysis Date: **06/05/2015** Seq No: **6253527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	77.86	2.5	50.00	28.11	99.5	90	110	78.75	1.13	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: 1506575

ANALYTICAL QC SUMMARY REPORT

BatchID: R293539

Sample ID: **1506625-001BMSD**	Client ID:		Units: **mg/L**	Prep Date:	Run No: **293539**
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**		BatchID: **R293539**	Analysis Date: **06/05/2015**	Seq No: **6253527**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	280.4	10	250.0	43.72	94.7	90	110	286.5	2.15	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.

June 16, 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: 1506684

Analytical Environmental Services, Inc. received 5 samples on 6/5/2015 4:47:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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

2 Coolers

Work Order: 1506684

Date: 6/5/15 Page 1 of 1

COMPANY:	ADDRESS:
Amec Foster Wheeler E+I	1075 Big Shanty Rd Ste 108 Kennesaw, GA 30144
PHONE: 770-421-3516	FAX: 770-421-3486
SAMPLED BY: DHoward, MAndrews, EGuillen	SIGNATURE: David K Howard

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) H+I	N	I	I	I	No # of Containers
1	TB-08	6/5/15	1000	X		W	2					2
2	MW-121		1222	X		GW	2	1	1	2	1	7
3	MW-119		1355	X		GW	2	1	1	2	1	7
4	TW-3		1140	X		GW	2	1	1	2	1	7
5	TW-7		1341	X		GW	2	1	1	1	1	6
6	Temp Blank											
7												
8												
9												
10												
11												
12												
13												
14												

ANALYSIS REQUESTED: VOCs list; Tot metals list; Diss metals list; Pest; Nitrates/Sulfates

REMARKS

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:	6-5-15 1611	1:	6-5-15 1611
2:	6-5-15 1647	2:	6/5/15 4:47
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be Filtered by Lab.
* Metals list: Arsenic, Lead Copper, Zinc

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

PROJECT INFORMATION
PROJECT NAME: BFEL Atlanta
PROJECT #: 6122080154
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
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other

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

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

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-08
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 10:00:00 AM
Lab ID:	1506684-001	**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	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/10/2015 14:37	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 11:15	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 11:15	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 11:15	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 11:15	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 11:15	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 11:15	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 11:15	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 11:15	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 11:15	NP
Surr: 4-Bromofluorobenzene	84	70.6-123		%REC	208532	1	06/10/2015 14:37	NP
Surr: 4-Bromofluorobenzene	88.3	70.6-123		%REC	208532	1	06/09/2015 11:15	NP
Surr: Dibromofluoromethane	90	78.7-124		%REC	208532	1	06/10/2015 14:37	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208532	1	06/09/2015 11:15	NP
Surr: Toluene-d8	85.1	81.3-120		%REC	208532	1	06/10/2015 14:37	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TB-08
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 10:00:00 AM
Lab ID:	1506684-001	**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	93.9	81.3-120		%REC	208532	1	06/09/2015 11:15	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-121
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 12:22:00 PM
Lab ID:	1506684-002	**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	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/10/2015 15:31	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 17:18	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 17:18	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 17:18	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 17:18	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 17:18	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 17:18	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 17:18	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 17:18	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 17:18	NP
Surr: 4-Bromofluorobenzene	86	70.6-123		%REC	208532	1	06/10/2015 15:31	NP
Surr: 4-Bromofluorobenzene	96.5	70.6-123		%REC	208532	1	06/09/2015 17:18	NP
Surr: Dibromofluoromethane	87.9	78.7-124		%REC	208532	1	06/10/2015 15:31	NP
Surr: Dibromofluoromethane	96.7	78.7-124		%REC	208532	1	06/09/2015 17:18	NP
Surr: Toluene-d8	85.6	81.3-120		%REC	208532	1	06/10/2015 15:31	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-121
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 12:22:00 PM
Lab ID:	1506684-002	**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	93.8	81.3-120		%REC	208532	1	06/09/2015 17:18	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208626	1	06/12/2015 00:30	JS
Copper	0.0309	0.00200		mg/L	208626	1	06/12/2015 18:12	JS
Lead	BRL	0.00100		mg/L	208626	1	06/12/2015 00:30	JS
Zinc	0.0204	0.0100		mg/L	208626	1	06/12/2015 00:30	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293650	1	06/05/2015 19:58	JW
Sulfate	12	1.0		mg/L	R293650	1	06/05/2015 19:58	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 21:15	JS
Copper	0.00660	0.00200		mg/L	208554	1	06/11/2015 21:15	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 21:15	JS
Zinc	0.0163	0.0100		mg/L	208554	1	06/10/2015 00:11	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/11/2015 23:28	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/11/2015 23:28	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/11/2015 23:28	SH
alpha-BHC	BRL	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
beta-BHC	0.000054	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
delta-BHC	0.000071	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/11/2015 23:28	SH
gamma-BHC	BRL	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/11/2015 23:28	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/11/2015 23:28	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/11/2015 23:28	SH
Surr: Decachlorobiphenyl	72.5	14.6-130		%REC	208575	1	06/11/2015 23:28	SH
Surr: Tetrachloro-m-xylene	49.5	14.4-116		%REC	208575	1	06/11/2015 23:28	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-119
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 1:55:00 PM
Lab ID:	1506684-003	**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	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
1,4-Dioxane	0.37	0.15		mg/L	208532	1	06/10/2015 16:24	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 17:41	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 17:41	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 17:41	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 17:41	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 17:41	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 17:41	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 17:41	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 17:41	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 17:41	NP
Surr: 4-Bromofluorobenzene	85.8	70.6-123		%REC	208532	1	06/10/2015 16:24	NP
Surr: 4-Bromofluorobenzene	99.2	70.6-123		%REC	208532	1	06/09/2015 17:41	NP
Surr: Dibromofluoromethane	92	78.7-124		%REC	208532	1	06/10/2015 16:24	NP
Surr: Dibromofluoromethane	96.5	78.7-124		%REC	208532	1	06/09/2015 17:41	NP
Surr: Toluene-d8	87	81.3-120		%REC	208532	1	06/10/2015 16:24	NP

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	MW-119
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 1:55:00 PM
Lab ID:	1506684-003	**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	92.8	81.3-120		%REC	208532	1	06/09/2015 17:41	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208626	1	06/12/2015 00:36	JS
Copper	0.0106	0.00200		mg/L	208626	1	06/12/2015 18:18	JS
Lead	BRL	0.00100		mg/L	208626	1	06/12/2015 00:36	JS
Zinc	0.760	0.0100		mg/L	208626	1	06/12/2015 00:36	JS
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293650	1	06/05/2015 20:28	JW
Sulfate	92	10		mg/L	R293650	10	06/11/2015 13:20	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 21:22	JS
Copper	BRL	0.00200		mg/L	208554	1	06/11/2015 21:22	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 21:22	JS
Zinc	0.690	0.0100		mg/L	208554	1	06/11/2015 21:22	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/11/2015 23:47	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/11/2015 23:47	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/11/2015 23:47	SH
alpha-BHC	0.00049	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
beta-BHC	0.00052	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
delta-BHC	0.00053	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/11/2015 23:47	SH
gamma-BHC	0.000085	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/11/2015 23:47	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/11/2015 23:47	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/11/2015 23:47	SH
Surr: Decachlorobiphenyl	71.2	14.6-130		%REC	208575	1	06/11/2015 23:47	SH
Surr: Tetrachloro-m-xylene	49.5	14.4-116		%REC	208575	1	06/11/2015 23:47	SH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-3
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 11:40:00 AM
Lab ID:	1506684-004	**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	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/10/2015 17:18	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 18:04	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 18:04	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 18:04	NP
Benzene	0.011	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Chlorobenzene	0.013	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:04	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:04	NP
cis-1,2-Dichloroethene	0.14	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 18:04	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 18:04	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 18:04	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 18:04	NP
Surr: 4-Bromofluorobenzene	84.4	70.6-123		%REC	208532	1	06/10/2015 17:18	NP
Surr: 4-Bromofluorobenzene	98.5	70.6-123		%REC	208532	1	06/09/2015 18:04	NP
Surr: Dibromofluoromethane	88.2	78.7-124		%REC	208532	1	06/10/2015 17:18	NP
Surr: Dibromofluoromethane	94.9	78.7-124		%REC	208532	1	06/09/2015 18:04	NP
Surr: Toluene-d8	83.5	81.3-120		%REC	208532	1	06/10/2015 17:18	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-3
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 11:40:00 AM
Lab ID:	1506684-004	**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	91.7	81.3-120		%REC	208532	1	06/09/2015 18:04	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208626	1	06/12/2015 00:43	JS
Copper	0.884	0.00200		mg/L	208626	1	06/12/2015 17:57	JS
Lead	0.00544	0.00100		mg/L	208626	1	06/12/2015 17:57	JS
Zinc	2.16	0.0100		mg/L	208626	1	06/12/2015 00:43	JS
ION SCAN SW9056A								
Nitrate	38	2.5		mg/L	R293650	10	06/05/2015 21:14	JW
Sulfate	530	100		mg/L	R293650	100	06/11/2015 13:35	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 21:47	JS
Copper	0.724	0.00200		mg/L	208554	1	06/11/2015 21:47	JS
Lead	0.00309	0.00100		mg/L	208554	1	06/11/2015 21:47	JS
Zinc	2.08	0.0100		mg/L	208554	1	06/11/2015 21:47	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/12/2015 00:05	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/12/2015 00:05	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/12/2015 00:05	SH
alpha-BHC	0.0012	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
beta-BHC	0.0011	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
delta-BHC	0.00041	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/12/2015 00:05	SH
gamma-BHC	0.00051	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/12/2015 00:05	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/12/2015 00:05	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/12/2015 00:05	SH
Surr: Decachlorobiphenyl	65	14.6-130		%REC	208575	1	06/12/2015 00:05	SH
Surr: Tetrachloro-m-xylene	45.4	14.4-116		%REC	208575	1	06/12/2015 00:05	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-7
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 1:41:00 PM
Lab ID:	1506684-005	**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	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/10/2015 18:11	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 18:26	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 18:26	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 18:26	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:26	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:26	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 18:26	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 18:26	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 18:26	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 18:26	NP
Surr: 4-Bromofluorobenzene	80.3	70.6-123		%REC	208532	1	06/10/2015 18:11	NP
Surr: 4-Bromofluorobenzene	96.9	70.6-123		%REC	208532	1	06/09/2015 18:26	NP
Surr: Dibromofluoromethane	94	78.7-124		%REC	208532	1	06/10/2015 18:11	NP
Surr: Dibromofluoromethane	96.7	78.7-124		%REC	208532	1	06/09/2015 18:26	NP
Surr: Toluene-d8	86.6	81.3-120		%REC	208532	1	06/10/2015 18:11	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:** 16-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-7
Project Name:	BFEL-Atlanta	**Collection Date:**	6/5/2015 1:41:00 PM
Lab ID:	1506684-005	**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	95	81.3-120		%REC	208532	1	06/09/2015 18:26	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208626	1	06/12/2015 09:58	JS
Copper	134	0.200		mg/L	208626	100	06/15/2015 19:51	JS
Lead	0.0364	0.00100		mg/L	208626	1	06/12/2015 09:58	JS
Zinc	286	10.0		mg/L	208626	1000	06/15/2015 23:43	JS
ION SCAN SW9056A								
Nitrate	2.0	0.25		mg/L	R293650	1	06/05/2015 21:29	JW
Sulfate	270	10		mg/L	R293650	10	06/05/2015 21:44	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/12/2015 10:11	JS
Copper	174	0.200		mg/L	208554	100	06/12/2015 11:37	JS
Lead	0.0342	0.00100		mg/L	208554	1	06/12/2015 10:11	JS
Zinc	347	1.00		mg/L	208554	100	06/12/2015 11:37	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/12/2015 00:24	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/12/2015 00:24	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/12/2015 00:24	SH
alpha-BHC	0.00039	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
beta-BHC	0.0015	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
delta-BHC	0.000086	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/12/2015 00:24	SH
gamma-BHC	0.00028	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/12/2015 00:24	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/12/2015 00:24	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/12/2015 00:24	SH
Surr: Decachlorobiphenyl	67.7	14.6-130		%REC	208575	1	06/12/2015 00:24	SH
Surr: Tetrachloro-m-xylene	82	14.4-116		%REC	208575	1	06/12/2015 00:24	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 Work Order Number 1506684

Checklist completed by _____ 6/5/15
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 3.9 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MS

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: 16-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506684

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506684-001A	TB-08	6/5/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/09/2015
1506684-001A	TB-08	6/5/2015 10:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506684-002A	MW-121	6/5/2015 12:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/09/2015
1506684-002A	MW-121	6/5/2015 12:22:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506684-002B	MW-121	6/5/2015 12:22:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00PM	06/12/2015
1506684-002C	MW-121	6/5/2015 12:22:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/10/2015
1506684-002C	MW-121	6/5/2015 12:22:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506684-002D	MW-121	6/5/2015 12:22:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/11/2015
1506684-002E	MW-121	6/5/2015 12:22:00PM	Groundwater	ION SCAN			06/05/2015
1506684-003A	MW-119	6/5/2015 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/09/2015
1506684-003A	MW-119	6/5/2015 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506684-003B	MW-119	6/5/2015 1:55:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00PM	06/12/2015
1506684-003C	MW-119	6/5/2015 1:55:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506684-003D	MW-119	6/5/2015 1:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/11/2015
1506684-003E	MW-119	6/5/2015 1:55:00PM	Groundwater	ION SCAN			06/05/2015
1506684-003E	MW-119	6/5/2015 1:55:00PM	Groundwater	ION SCAN			06/11/2015
1506684-004A	TW-3	6/5/2015 11:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/09/2015
1506684-004A	TW-3	6/5/2015 11:40:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506684-004B	TW-3	6/5/2015 11:40:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00PM	06/12/2015
1506684-004C	TW-3	6/5/2015 11:40:00AM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/11/2015
1506684-004D	TW-3	6/5/2015 11:40:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/12/2015
1506684-004E	TW-3	6/5/2015 11:40:00AM	Groundwater	ION SCAN			06/05/2015
1506684-004E	TW-3	6/5/2015 11:40:00AM	Groundwater	ION SCAN			06/11/2015
1506684-005A	TW-7	6/5/2015 1:41:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/09/2015
1506684-005A	TW-7	6/5/2015 1:41:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00PM	06/10/2015
1506684-005B	TW-7	6/5/2015 1:41:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00PM	06/12/2015
1506684-005B	TW-7	6/5/2015 1:41:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00PM	06/15/2015
1506684-005C	TW-7	6/5/2015 1:41:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02PM	06/12/2015
1506684-005D	TW-7	6/5/2015 1:41:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/12/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506684

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506684-005E	TW-7	6/5/2015 1:41:00PM	Groundwater	ION SCAN			06/05/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

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	0.0050									
1,1,2,2-Tetrachloroethane	BRL	0.0050									
1,1,2-Trichloroethane	BRL	0.0050									
1,1-Dichloroethane	BRL	0.0050									
1,1-Dichloroethene	BRL	0.0050									
1,1-Dichloropropene	BRL	0.0050									
1,2,4-Trichlorobenzene	BRL	0.0050									
1,2-Dichloroethane	BRL	0.0050									
1,2-Dichloropropane	BRL	0.0050									
2-Butanone	BRL	0.050									
4-Methyl-2-pentanone	BRL	0.010									
Acetone	BRL	0.050									
Benzene	BRL	0.0050									
Carbon disulfide	BRL	0.0050									
Carbon tetrachloride	BRL	0.0050									
Chlorobenzene	BRL	0.0050									
Chloroethane	BRL	0.010									
Chloroform	BRL	0.0050									
Chloromethane	BRL	0.010									
cis-1,2-Dichloroethene	BRL	0.0050									
Cyclohexane	BRL	0.0050									
Ethylbenzene	BRL	0.0050									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	BRL	0.0050									
Styrene	BRL	0.0050									

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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Tetrachloroethene	BRL	0.0050									
Tetrahydrofuran	BRL	0.010									
Toluene	BRL	0.0050									
trans-1,2-Dichloroethene	BRL	0.0050									
Trichloroethene	BRL	0.0050									
Trichlorofluoromethane	BRL	0.0050									
Vinyl chloride	BRL	0.0020									
Xylenes, Total	BRL	0.0050									
Surr: 4-Bromofluorobenzene	0.04391	0	50.00		87.8	70.6	123				
Surr: Dibromofluoromethane	0.04968	0	50.00		99.4	78.7	124				
Surr: Toluene-d8	0.04606	0	50.00		92.1	81.3	120				

Sample ID: **MB-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293583**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/10/2015** Seq No: **6254211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	0.15									
Surr: 4-Bromofluorobenzene	0.04171	0	50.00		83.4	70.6	123				
Surr: Dibromofluoromethane	0.04487	0	50.00		89.7	78.7	124				
Surr: Toluene-d8	0.04193	0	50.00		83.9	81.3	120				

Sample ID: **LCS-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.05502	0.0050	50.00		110	64.2	137				
Benzene	0.04850	0.0050	50.00		97.0	72.8	128				
Chlorobenzene	0.05073	0.0050	50.00		101	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **LCS-208532** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	0.04870	0.0050	50.00		97.4	74.9	127				
Trichloroethene	0.04865	0.0050	50.00		97.3	70.5	134				
Surr: 4-Bromofluorobenzene	0.04429	0	50.00		88.6	70.6	123				
Surr: Dibromofluoromethane	0.04973	0	50.00		99.5	78.7	124				
Surr: Toluene-d8	0.04566	0	50.00		91.3	81.3	120				

Sample ID: **1506363-001AMS** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.736	0.25	2500		109	60.5	156				
Benzene	2.468	0.25	2500		98.7	70	135				
Chlorobenzene	2.490	0.25	2500		99.6	70.5	132				
Toluene	2.556	0.25	2500	46.50	100	70.5	137				
Trichloroethene	2.436	0.25	2500		97.4	71.8	139				
Surr: 4-Bromofluorobenzene	2.388	0	2500		95.5	70.6	123				
Surr: Dibromofluoromethane	2.478	0	2500		99.1	78.7	124				
Surr: Toluene-d8	2.344	0	2500		93.7	81.3	120				

Sample ID: **1506363-001AMSD** Client ID: Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2.658	0.25	2500		106	60.5	156	2736	2.89	20	
Benzene	2.350	0.25	2500		94.0	70	135	2468	4.94	20	
Chlorobenzene	2.402	0.25	2500		96.1	70.5	132	2490	3.58	20	
Toluene	2.392	0.25	2500	46.50	93.8	70.5	137	2556	6.63	20	
Trichloroethene	2.314	0.25	2500		92.5	71.8	139	2436	5.14	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **1506363-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **mg/L** Prep Date: **06/08/2015** Run No: **293369**
BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	2.386	0	2500		95.4	70.6	123	2388	0	0	
Surr: Dibromofluoromethane	2.474	0	2500		98.9	78.7	124	2478	0	0	
Surr: Toluene-d8	2.307	0	2500		92.3	81.3	120	2344	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **MB-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08970	0.00500	100.0		89.7	80	120				
Copper	0.08854	0.00200	100.0		88.5	80	120				
Lead	0.09564	0.00100	100.0		95.6	80	120				
Zinc	0.08604	0.0100	100.0		86.0	80	120				

Sample ID: **1506400-002CMS** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09329	0.00500	100.0	0.3764	92.9	75	125				
Copper	0.1088	0.00200	100.0	48.08	60.7	75	125				S
Lead	0.08800	0.00100	100.0		88.0	75	125				
Zinc	5.265	0.0100	100.0	5053	212	75	125				S

Sample ID: **1506400-002CMSD** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09273	0.00500	100.0	0.3764	92.4	75	125	93.29	0.606	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **1506400-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1074	0.00200	100.0	48.08	59.3	75	125	108.8	1.29	20	S
Lead	0.08512	0.00100	100.0		85.1	75	125	88.00	3.32	20	
Zinc	5.245	0.0100	100.0	5053	191	75	125	5265	0.385	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **MB-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259223**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000431	0	0.5000		86.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.000274	0	0.5000		54.8	14.4	116				

Sample ID: **LCS-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259224**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.001325	0.00010	1.000		133	52.5	140				
Dieldrin	0.001043	0.00010	1.000		104	59.5	137				
gamma-BHC	0.001013	0.000050	1.000		101	46	134				
Heptachlor	0.001010	0.000050	1.000		101	44.7	127				
Surr: Decachlorobiphenyl	0.000483	0	0.5000		96.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000421	0	0.5000		84.1	14.4	116				

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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **1506918-001DMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259060**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.000767	0.00010	1.000		76.7	36.3	142				
4,4´-DDE	0.000938	0.00010	1.000		93.8	29.8	138				
4,4´-DDT	0.000758	0.00010	1.000		75.8	27.1	146				
Dieldrin	0.000819	0.00010	1.000	0.07566	74.4	39.4	142				
Heptachlor	0.000860	0.000050	1.000		86.0	33	138				
Surr: Decachlorobiphenyl	0.000281	0	0.5000		56.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.000271	0	0.5000		54.2	14.4	116				

Sample ID: **1506918-001DMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293802**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
alpha-BHC	0.01350	0.00050	1.000	7.801	570	36.6	137				S
beta-BHC	0.007596	0.00050	1.000	5.993	160	40.6	144				S
delta-BHC	0.008531	0.00050	1.000	7.143	139	48.5	139				
gamma-BHC	0.002958	0.00050	1.000	1.746	121	34.5	144				

Sample ID: **1506918-001DMSD** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259061**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.000797	0.00010	1.000		79.7	36.3	142	0.7672	3.85	21.9	
4,4´-DDE	0.000866	0.00010	1.000		86.6	29.8	138	0.9378	8.00	25.6	
4,4´-DDT	0.000764	0.00010	1.000		76.4	27.1	146	0.7581	0.824	21.2	
Dieldrin	0.000828	0.00010	1.000	0.07566	75.2	39.4	142	0.8194	1.05	20	
Heptachlor	0.000902	0.000050	1.000		90.2	33	138	0.8598	4.84	26.9	
Surr: Decachlorobiphenyl	0.000243	0	0.5000		48.6	14.6	130	0.2810	0	0	
Surr: Tetrachloro-m-xylene	0.000318	0	0.5000		63.5	14.4	116	0.2711	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **1506918-001DMSD** Client ID:
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**
Units: **mg/L** Prep Date: **06/10/2015** Run No: **293802**
BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259592**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
alpha-BHC	0.01211	0.00050	1.000	7.801	431	36.6	137	12.23	1.00	27.1	S
beta-BHC	0.006946	0.00050	1.000	5.993	95.3	40.6	144	7.571	8.61	26.3	
delta-BHC	0.007594	0.00050	1.000	7.143	45.1	48.5	139	9.140	18.5	20	S
gamma-BHC	0.002685	0.00050	1.000	1.746	93.9	34.5	144	3.046	12.6	23.1	

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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208626

Sample ID: **MB-208626** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293720**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208626** Analysis Date: **06/11/2015** Seq No: **6257552**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208626** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293720**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208626** Analysis Date: **06/11/2015** Seq No: **6257553**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1040	0.00500	100.0	0.6270	103	80	120				
Copper	0.1074	0.00200	100.0	1.463	106	80	120				
Lead	0.1038	0.00100	100.0		104	80	120				
Zinc	0.1078	0.0100	100.0	5.996	102	80	120				

Sample ID: **1506702-004AMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293720**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208626** Analysis Date: **06/12/2015** Seq No: **6257555**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1056	0.00500	100.0	5.531	100	75	125				
Copper	0.1009	0.00200	100.0	2.385	98.5	75	125				
Lead	0.1052	0.00100	100.0	1.064	104	75	125				
Zinc	0.1533	0.0100	100.0	50.60	103	75	125				

Sample ID: **1506702-004AMSD** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293720**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208626** Analysis Date: **06/12/2015** Seq No: **6257556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1082	0.00500	100.0	5.531	103	75	125	105.6	2.43	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: 208626

Sample ID: **1506702-004AMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/10/2015** Run No: **293720**
BatchID: **208626** Analysis Date: **06/12/2015** Seq No: **6257556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1017	0.00200	100.0	2.385	99.3	75	125	100.9	0.790	20	
Lead	0.08532	0.00100	100.0	1.064	84.3	75	125	105.2	20.9	20	R
Zinc	0.1503	0.0100	100.0	50.60	99.7	75	125	153.3	1.98	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: R293650

Sample ID: **MB-R293650** Client ID: Units: **mg/L** Prep Date: Run No: **293650**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255614**

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-R293650** Client ID: Units: **mg/L** Prep Date: Run No: **293650**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255613**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.061	0.25	5.000		101	90	110				
Sulfate	25.56	1.0	25.00		102	90	110				

Sample ID: **1506685-005AMS** Client ID: Units: **mg/L** Prep Date: Run No: **293650**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255629**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.593	0.25	5.000	1.669	98.5	90	110				
Sulfate	24.74	1.0	25.00	1.732	92.0	90	110				

Sample ID: **1506685-008AMS** Client ID: Units: **mg/L** Prep Date: Run No: **293650**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255632**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	50.12	2.5	50.00	1.224	97.8	90	110				
Sulfate	249.5	10	250.0	5.459	97.6	90	110				

Sample ID: **1506685-005AMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293650**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	6.555	0.25	5.000	1.669	97.7	90	110	6.593	0.577	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: 1506684

ANALYTICAL QC SUMMARY REPORT

BatchID: R293650

Sample ID: **1506685-005AMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **293650**
BatchID: **R293650** Analysis Date: **06/05/2015** Seq No: **6255630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.95	1.0	25.00	1.732	92.9	90	110	24.74	0.868	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.

June 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: 1506918

Analytical Environmental Services, Inc. received 4 samples on 6/8/2015 3:00:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 1506918

Date: 6/8/15 Page 1 of 1

COMPANY: AMEC Foster Wheeler E&I

ADDRESS: 1075 Big Shanty RD Suite 100 Kennesaw, GA 30144

PHONE: 770-421-3516

FAX: 770-421-3486

SAMPLED BY: Mark A & Ever G

SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs list	Total Metals list	Dissolved Metals list	Pesticides list	Nitrates & Sulfates	No # of Containers
	PRESERVATION (See codes)						H+I	N	I	I	I	
1	TW-9	6/8/15	1141	✓		GW	✓	✓	✓	✓	✓	7
2	OW-3	6/8/15	1230	✓		GW		✓	✓	✓	✓	5
3	TW-10	6/8/15	1257	✓		GW	✓	✓	✓	✓	✓	7
4	Trip Blank	6/8/15					✓					2
5												
6												
7												
8												
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.

REMARKS

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6/8/15 1500	1: Latoya Reeves	6/8/15 3:00p
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL Atlanta

PROJECT #: 6122080154

SITE ADDRESS: 1575 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):

E-mail? Y / N; Fax? Y / N

DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:
* Dissolved metals will be filtered by lab
* metals: Arsenic, Lead, Copper & Zinc

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

Cooler #1 = 3.1°C

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL Atlanta
Lab ID: 1506918

Case Narrative

Metals Analysis by Method 6020:

Zinc was detected in Method Blank 208628 at 43.62µg/L, which was above the reporting limit of 10µg/L resulting in "B" qualified data for the Batch QC samples and all samples with final reporting limits less than the value detected in the method bank. Associated sample values were greater than approximately 10x the blank value, and data was not affected.

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-9
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 11:41:00 AM
Lab ID:	1506918-001	**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	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/11/2015 11:10	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 18:49	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 18:49	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 18:49	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:49	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 18:49	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 18:49	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 18:49	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 18:49	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 18:49	NP
Surr: 4-Bromofluorobenzene	73.3	70.6-123		%REC	208532	1	06/11/2015 11:10	NP
Surr: 4-Bromofluorobenzene	94.3	70.6-123		%REC	208532	1	06/09/2015 18:49	NP
Surr: Dibromofluoromethane	98.2	78.7-124		%REC	208532	1	06/09/2015 18:49	NP
Surr: Dibromofluoromethane	104	78.7-124		%REC	208532	1	06/11/2015 11:10	NP
Surr: Toluene-d8	86	81.3-120		%REC	208532	1	06/11/2015 11:10	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-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-9
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 11:41:00 AM
Lab ID:	1506918-001	**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	94.4	81.3-120		%REC	208532	1	06/09/2015 18:49	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208628	1	06/12/2015 17:32	MR
Copper	0.105	0.00200		mg/L	208628	1	06/16/2015 18:54	JS
Lead	BRL	0.00100		mg/L	208628	1	06/16/2015 18:54	JS
Zinc	7.89	0.0100	B	mg/L	208628	1	06/12/2015 17:32	MR
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R293725	1	06/09/2015 10:04	JW
Sulfate	610	10		mg/L	R293725	10	06/09/2015 10:57	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 22:24	JS
Copper	0.0964	0.00200		mg/L	208554	1	06/11/2015 22:24	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 22:24	JS
Zinc	4.84	0.0100		mg/L	208554	1	06/11/2015 22:24	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/11/2015 18:00	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/11/2015 18:00	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/11/2015 18:00	SH
alpha-BHC	0.0085	0.00050		mg/L	208575	10	06/12/2015 14:57	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 18:00	SH
beta-BHC	0.0059	0.00050		mg/L	208575	10	06/12/2015 14:57	SH
delta-BHC	0.0065	0.00050		mg/L	208575	10	06/12/2015 14:57	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/11/2015 18:00	SH
gamma-BHC	0.0017	0.00050		mg/L	208575	10	06/12/2015 14:57	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/11/2015 18:00	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/11/2015 18:00	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/11/2015 18:00	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/11/2015 18:00	SH
Surr: Decachlorobiphenyl	44.8	14.6-130		%REC	208575	1	06/11/2015 18:00	SH
Surr: Tetrachloro-m-xylene	32.3	14.4-116		%REC	208575	1	06/11/2015 18:00	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-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	OW-3
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 12:30:00 PM
Lab ID:	1506918-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	0.00500		mg/L	208628	1	06/12/2015 17:38	MR
Copper	0.984	0.00200		mg/L	208628	1	06/12/2015 17:38	MR
Lead	0.00179	0.00100		mg/L	208628	1	06/12/2015 17:38	MR
Zinc	9.05	0.0100	B	mg/L	208628	1	06/12/2015 17:38	MR
ION SCAN SW9056A								
Nitrate	0.52	0.25		mg/L	R293725	1	06/09/2015 10:18	JW
Sulfate	420	10		mg/L	R293725	10	06/09/2015 11:11	JW
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**			
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 22:31	JS
Copper	0.807	0.00200		mg/L	208554	1	06/11/2015 22:31	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 22:31	JS
Zinc	7.22	0.0100		mg/L	208554	1	06/11/2015 22:31	JS
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**			
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/13/2015 00:16	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/13/2015 00:16	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/13/2015 00:16	SH
alpha-BHC	0.0032	0.00050		mg/L	208575	10	06/12/2015 15:52	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/13/2015 00:16	SH
beta-BHC	0.0018	0.00050		mg/L	208575	10	06/12/2015 15:52	SH
delta-BHC	0.0083	0.00050		mg/L	208575	10	06/12/2015 15:52	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/13/2015 00:16	SH
gamma-BHC	0.0021	0.00050		mg/L	208575	10	06/12/2015 15:52	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/13/2015 00:16	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/13/2015 00:16	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/13/2015 00:16	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/13/2015 00:16	SH
Surr: Decachlorobiphenyl	69.7	14.6-130		%REC	208575	1	06/13/2015 00:16	SH
Surr: Tetrachloro-m-xylene	68.5	14.4-116		%REC	208575	1	06/13/2015 00:16	SH

Qualifiers:

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

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-10
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 12:57:00 PM
Lab ID:	1506918-003	**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	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/11/2015 11:36	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 19:44	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/09/2015 19:44	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 19:44	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 19:44	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 19:44	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 19:44	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 19:44	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 19:44	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 19:44	NP
Surr: 4-Bromofluorobenzene	75.1	70.6-123		%REC	208532	1	06/11/2015 11:36	NP
Surr: 4-Bromofluorobenzene	94.5	70.6-123		%REC	208532	1	06/09/2015 19:44	NP
Surr: Dibromofluoromethane	99.6	78.7-124		%REC	208532	1	06/09/2015 19:44	NP
Surr: Dibromofluoromethane	105	78.7-124		%REC	208532	1	06/11/2015 11:36	NP
Surr: Toluene-d8	89.6	81.3-120		%REC	208532	1	06/11/2015 11:36	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-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TW-10
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 12:57:00 PM
Lab ID:	1506918-003	**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	93.3	81.3-120		%REC	208532	1	06/09/2015 19:44	NP
Total Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208628	1	06/12/2015 14:36	MR
Copper	14.2	0.0200		mg/L	208628	10	06/15/2015 15:18	JS
Lead	BRL	0.00100		mg/L	208628	1	06/12/2015 14:36	MR
Zinc	16.8	0.100		mg/L	208628	10	06/15/2015 15:18	JS
ION SCAN SW9056A								
Nitrate	2.5	0.25		mg/L	R293725	1	06/09/2015 10:33	JW
Sulfate	730	10		mg/L	R293725	10	06/09/2015 11:26	JW
Dissolved Metals by ICP/MS SW6020A				**(SW3005A)**				
Arsenic	BRL	0.00500		mg/L	208554	1	06/11/2015 22:37	JS
Copper	19.2	0.0200		mg/L	208554	10	06/12/2015 11:44	JS
Lead	BRL	0.00100		mg/L	208554	1	06/11/2015 22:37	JS
Zinc	22.2	0.100		mg/L	208554	10	06/12/2015 11:44	JS
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.00010		mg/L	208575	1	06/13/2015 00:34	SH
4,4´-DDE	BRL	0.00010		mg/L	208575	1	06/13/2015 00:34	SH
4,4´-DDT	BRL	0.00010		mg/L	208575	1	06/13/2015 00:34	SH
alpha-BHC	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
alpha-Chlordane	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
beta-BHC	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
delta-BHC	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
Dieldrin	BRL	0.00010		mg/L	208575	1	06/13/2015 00:34	SH
gamma-BHC	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
gamma-Chlordane	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
Heptachlor	BRL	0.000050		mg/L	208575	1	06/13/2015 00:34	SH
Methoxychlor	BRL	0.00050		mg/L	208575	1	06/13/2015 00:34	SH
Toxaphene	BRL	0.0050		mg/L	208575	1	06/13/2015 00:34	SH
Surr: Decachlorobiphenyl	67.5	14.6-130		%REC	208575	1	06/13/2015 00:34	SH
Surr: Tetrachloro-m-xylene	57.5	14.4-116		%REC	208575	1	06/13/2015 00:34	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TRIP BLANK
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015
Lab ID:	1506918-004	**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	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,1,2-Trichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,1-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,1-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,1-Dichloropropene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,2-Dichloroethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,2-Dichloropropane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
1,4-Dioxane	BRL	0.15		mg/L	208532	1	06/11/2015 10:16	NP
2-Butanone	BRL	0.050		mg/L	208532	1	06/09/2015 11:38	NP
4-Methyl-2-pentanone	BRL	0.010		mg/L	208532	1	06/11/2015 10:16	NP
Acetone	BRL	0.050		mg/L	208532	1	06/09/2015 11:38	NP
Benzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Carbon disulfide	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Carbon tetrachloride	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Chlorobenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Chloroethane	BRL	0.010		mg/L	208532	1	06/09/2015 11:38	NP
Chloroform	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Chloromethane	BRL	0.010		mg/L	208532	1	06/09/2015 11:38	NP
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Cyclohexane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Ethylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Isobutyl Alcohol	BRL	0.20		mg/L	208532	1	06/09/2015 11:38	NP
Isopropylbenzene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Methylene chloride	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Naphthalene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Styrene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Tetrachloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Tetrahydrofuran	BRL	0.010		mg/L	208532	1	06/09/2015 11:38	NP
Toluene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Trichloroethene	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Trichlorofluoromethane	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Vinyl chloride	BRL	0.0020		mg/L	208532	1	06/09/2015 11:38	NP
Xylenes, Total	BRL	0.0050		mg/L	208532	1	06/09/2015 11:38	NP
Surr: 4-Bromofluorobenzene	75.8	70.6-123		%REC	208532	1	06/11/2015 10:16	NP
Surr: 4-Bromofluorobenzene	87.1	70.6-123		%REC	208532	1	06/09/2015 11:38	NP
Surr: Dibromofluoromethane	103	78.7-124		%REC	208532	1	06/09/2015 11:38	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208532	1	06/11/2015 10:16	NP
Surr: Toluene-d8	88.8	81.3-120		%REC	208532	1	06/11/2015 10:16	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-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	TRIP BLANK
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015
Lab ID:	1506918-004	**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	94.4	81.3-120		%REC	208532	1	06/09/2015 11:38	NP

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AMEC Work Order Number 1506918

Checklist completed by _____ 6/8/15
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MT

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: 17-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506918

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506918-001A	TW-9	6/8/2015 11:41:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/09/2015
1506918-001A	TW-9	6/8/2015 11:41:00AM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/11/2015
1506918-001B	TW-9	6/8/2015 11:41:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/12/2015
1506918-001B	TW-9	6/8/2015 11:41:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/16/2015
1506918-001C	TW-9	6/8/2015 11:41:00AM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506918-001D	TW-9	6/8/2015 11:41:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/11/2015
1506918-001D	TW-9	6/8/2015 11:41:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506918-001E	TW-9	6/8/2015 11:41:00AM	Groundwater	ION SCAN			06/09/2015
1506918-002A	OW-3	6/8/2015 12:30:00PM	Groundwater	ION SCAN			06/09/2015
1506918-002B	OW-3	6/8/2015 12:30:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/12/2015
1506918-002C	OW-3	6/8/2015 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506918-002D	OW-3	6/8/2015 12:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506918-002D	OW-3	6/8/2015 12:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506918-003A	TW-10	6/8/2015 12:57:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/09/2015
1506918-003A	TW-10	6/8/2015 12:57:00PM	Groundwater	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/11/2015
1506918-003B	TW-10	6/8/2015 12:57:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/12/2015
1506918-003B	TW-10	6/8/2015 12:57:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/15/2015
1506918-003C	TW-10	6/8/2015 12:57:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506918-003C	TW-10	6/8/2015 12:57:00PM	Groundwater	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/12/2015
1506918-003D	TW-10	6/8/2015 12:57:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506918-003E	TW-10	6/8/2015 12:57:00PM	Groundwater	ION SCAN			06/09/2015
1506918-004A	TRIP BLANK	6/8/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/09/2015
1506918-004A	TRIP BLANK	6/8/2015 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		6/8/2015 3:11:00 PM	06/11/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Workorder: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

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									
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									
Styrene	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **MB-208532** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250124**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
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	43.91	0	50.00		87.8	70.6	123				
Surr: Dibromofluoromethane	49.68	0	50.00		99.4	78.7	124				
Surr: Toluene-d8	46.06	0	50.00		92.1	81.3	120				

Sample ID: **MB-208532** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293583**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/10/2015** Seq No: **6254211**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,4-Dioxane	BRL	150									
Surr: 4-Bromofluorobenzene	41.71	0	50.00		83.4	70.6	123				
Surr: Dibromofluoromethane	44.87	0	50.00		89.7	78.7	124				
Surr: Toluene-d8	41.93	0	50.00		83.9	81.3	120				

Sample ID: **LCS-208532** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.02	5.0	50.00		110	64.2	137				
Benzene	48.50	5.0	50.00		97.0	72.8	128				
Chlorobenzene	50.73	5.0	50.00		101	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **LCS-208532** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250123**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Toluene	48.70	5.0	50.00		97.4	74.9	127				
Trichloroethene	48.65	5.0	50.00		97.3	70.5	134				
Surr: 4-Bromofluorobenzene	44.29	0	50.00		88.6	70.6	123				
Surr: Dibromofluoromethane	49.73	0	50.00		99.5	78.7	124				
Surr: Toluene-d8	45.66	0	50.00		91.3	81.3	120				

Sample ID: **1506363-001AMS** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250128**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2736	250	2500		109	60.5	156				
Benzene	2468	250	2500		98.7	70	135				
Chlorobenzene	2490	250	2500		99.6	70.5	132				
Toluene	2556	250	2500	46.50	100	70.5	137				
Trichloroethene	2436	250	2500		97.4	71.8	139				
Surr: 4-Bromofluorobenzene	2388	0	2500		95.5	70.6	123				
Surr: Dibromofluoromethane	2478	0	2500		99.1	78.7	124				
Surr: Toluene-d8	2344	0	2500		93.7	81.3	120				

Sample ID: **1506363-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2658	250	2500		106	60.5	156	2736	2.89	20	
Benzene	2350	250	2500		94.0	70	135	2468	4.94	20	
Chlorobenzene	2402	250	2500		96.1	70.5	132	2490	3.58	20	
Toluene	2392	250	2500	46.50	93.8	70.5	137	2556	6.63	20	
Trichloroethene	2314	250	2500		92.5	71.8	139	2436	5.14	20	

Qualifiers:

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

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Workorder: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208532

Sample ID: **1506363-001AMSD** Client ID:
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B**
Units: **ug/L** Prep Date: **06/08/2015** Run No: **293369**
BatchID: **208532** Analysis Date: **06/08/2015** Seq No: **6250129**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: 4-Bromofluorobenzene	2386	0	2500		95.4	70.6	123	2388	0	0	
Surr: Dibromofluoromethane	2474	0	2500		98.9	78.7	124	2478	0	0	
Surr: Toluene-d8	2307	0	2500		92.3	81.3	120	2344	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **MB-208554** Client ID: Units: **ug/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253596**

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-208554** Client ID: Units: **ug/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	89.70	5.00	100.0		89.7	80	120				
Copper	88.54	2.00	100.0		88.5	80	120				
Lead	95.64	1.00	100.0		95.6	80	120				
Zinc	86.04	10.0	100.0		86.0	80	120				

Sample ID: **1506400-002CMS** Client ID: Units: **ug/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	93.29	5.00	100.0	0.3764	92.9	75	125				
Copper	108.8	2.00	100.0	48.08	60.7	75	125				S
Lead	88.00	1.00	100.0		88.0	75	125				
Zinc	5265	10.0	100.0	5053	212	75	125				S

Sample ID: **1506400-002CMSD** Client ID: Units: **ug/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	92.73	5.00	100.0	0.3764	92.4	75	125	93.29	0.606	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **1506400-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **ug/L** BatchID: **208554**
Prep Date: **06/09/2015** Analysis Date: **06/09/2015**
Run No: **293542** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	107.4	2.00	100.0	48.08	59.3	75	125	108.8	1.29	20	S
Lead	85.12	1.00	100.0		85.1	75	125	88.00	3.32	20	
Zinc	5245	10.0	100.0	5053	191	75	125	5265	0.385	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **MB-208575** Client ID: Units: **ug/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259223**

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	0.4306	0	0.5000		86.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.2740	0	0.5000		54.8	14.4	116				

Sample ID: **LCS-208575** Client ID: Units: **ug/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259224**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	1.325	0.10	1.000		133	52.5	140				
Dieldrin	1.043	0.10	1.000		104	59.5	137				
gamma-BHC	1.013	0.050	1.000		101	46	134				
Heptachlor	1.010	0.050	1.000		101	44.7	127				
Surr: Decachlorobiphenyl	0.4829	0	0.5000		96.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.4207	0	0.5000		84.1	14.4	116				

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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **1506918-001DMS** Client ID: **TW-9** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259060**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.7581	0.10	1.000		75.8	27.1	146				
Dieldrin	0.8194	0.10	1.000	0.07566	74.4	39.4	142				
Heptachlor	0.8598	0.050	1.000		86.0	33	138				
Surr: Decachlorobiphenyl	0.2810	0	0.5000		56.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.2711	0	0.5000		54.2	14.4	116				

Sample ID: **1506918-001DMS** Client ID: **TW-9** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293802**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	2.958	0.50	1.000	1.746	121	34.5	144				

Sample ID: **1506918-001DMSD** Client ID: **TW-9** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259061**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.7644	0.10	1.000		76.4	27.1	146	0.7581	0.824	21.2	
Dieldrin	0.8281	0.10	1.000	0.07566	75.2	39.4	142	0.8194	1.05	20	
Heptachlor	0.9024	0.050	1.000		90.2	33	138	0.8598	4.84	26.9	
Surr: Decachlorobiphenyl	0.2430	0	0.5000		48.6	14.6	130	0.2810	0	0	
Surr: Tetrachloro-m-xylene	0.3176	0	0.5000		63.5	14.4	116	0.2711	0	0	

Sample ID: **1506918-001DMSD** Client ID: **TW-9** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293802**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259592**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	2.685	0.50	1.000	1.746	93.9	34.5	144	3.046	12.6	23.1	

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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208628

Sample ID: **MB-208628** Client ID: Units: **ug/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260142**

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	43.62	10.0									B

Sample ID: **LCS-208628** Client ID: Units: **ug/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260143**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	119.4	5.00	100.0	0.5160	119	80	120				
Copper	120.2	2.00	100.0	1.018	119	80	120				
Lead	117.4	1.00	100.0		117	80	120				
Zinc	133.1	10.0	100.0	43.62	89.5	80	120				B

Sample ID: **1506918-003BMS** Client ID: **TW-10** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260145**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	87.69	5.00	100.0	2.272	85.4	75	125				
Lead	113.4	1.00	100.0	0.8930	113	75	125				

Sample ID: **1506918-003BMS** Client ID: **TW-10** Units: **ug/L** Prep Date: **06/10/2015** Run No: **293931**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/15/2015** Seq No: **6262591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	12910	20.0	100.0	14240	-1330	75	125				S
Zinc	15190	100	100.0	16780	-1590	75	125				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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: 208628

Sample ID: **1506918-003BMSD**	Client ID: **TW-10**				Units: **ug/L**		Prep Date: **06/10/2015**		Run No: **293822**	
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**				BatchID: **208628**		Analysis Date: **06/12/2015**		Seq No: **6260146**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	87.93	5.00	100.0	2.272	85.7	75	125	87.69	0.273	20	
Lead	116.6	1.00	100.0	0.8930	116	75	125	113.4	2.78	20	

Sample ID: **1506918-003BMSD**	Client ID: **TW-10**				Units: **ug/L**		Prep Date: **06/10/2015**		Run No: **293931**	
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**				BatchID: **208628**		Analysis Date: **06/15/2015**		Seq No: **6262593**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	14890	20.0	100.0	14240	655	75	125	12910	14.2	20	S
Zinc	17600	100	100.0	16780	819	75	125	15190	14.7	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: 1506918

ANALYTICAL QC SUMMARY REPORT

BatchID: R293725

Sample ID: **MB-R293725** Client ID: Units: **mg/L** Prep Date: Run No: **293725**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R293725** Analysis Date: **06/09/2015** Seq No: **6257641**

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-R293725** Client ID: Units: **mg/L** Prep Date: Run No: **293725**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R293725** Analysis Date: **06/09/2015** Seq No: **6257640**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.017	0.25	5.000		100	90	110				
Sulfate	24.45	1.0	25.00		97.8	90	110				

Sample ID: **1506A39-002BMS** Client ID: Units: **mg/L** Prep Date: Run No: **293725**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R293725** Analysis Date: **06/09/2015** Seq No: **6257652**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	46.61	2.5	50.00		93.2	90	110				
Sulfate	262.6	10	250.0	36.33	90.5	90	110				

Sample ID: **1506A39-002BMSD** Client ID: Units: **mg/L** Prep Date: Run No: **293725**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R293725** Analysis Date: **06/09/2015** Seq No: **6257653**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	45.25	2.5	50.00		90.5	90	110	46.61	2.97	20	
Sulfate	267.1	10	250.0	36.33	92.3	90	110	262.6	1.73	20	

Qualifiers:

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

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: 5/27/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1322

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 22.96 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 32.3 _____

Arrived at: 1210 PURGE VOLUME: 9.34 X 0.163 = 1.52 x 3 WELL DIAMETER (inches):

Initial PID = _____ 4.56 gal 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: 1230	0.1	6.06	20.29	0.353	122	5.61	204	400 ( )	23.15
1255	2.0	6.40	19.95	0.328	3.1	3.91	160	400	23.15
1305	3.0	6.42	20.16	0.333	2.1	3.60	163	400	23.15
1315	4.0	6.41	20.27	0.334	1.0	3.67	162	400	23.15
1320	4.6	6.44	20.02	0.338	0.5	3.57	167	400	23.15
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 80°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-22 DEPTH TO PRODUCT: _____ DATE: 5/29/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1250

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 18.06 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 28.9 _____

Arrived at: 1140 PURGE VOLUME: 10.84 x 0.163 = 1.77 x 3 = 5.3 gal WELL DIAMETER (Inches): 2-inch

Initial PID = _____

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: 1200	0.1	4.20	17.87	0.570	87.0	2.23	320	600 ( )	19.13
1210	1.0	4.09	18.01	0.572	50.1	2.09	341	600	19.16
1218	2.0	4.13	18.20	0.598	0.0	0.50	338	600	19.08
1225	3.0	4.19	18.22	0.604	0.0	0.12	331	600	19.06
1232	4.0	4.21	18.16	0.605	0.0	0.0	325	600	19.07
1239	5.0	4.40	18.10	0.606	0.0	0.0	312	600	19.07
1243	5.5	4.35	18.14	0.605	0.0	0.0	312	600	19.07
1247	6.0	4.34	18.08	0.606	0.0	0.0	312	600	19.09
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 80°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-25 DEPTH TO PRODUCT: _____ DATE: 6/2/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1236

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 27.46 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 30.70 _____

Arrived at: 1030 PURGE VOLUME: 1.5 8 gal 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: 1130		4.31	20.04	0.414	24.0	0.92	111	100 ( )	27.70
1139	.25	4.15	19.26	0.420	21.3	1.20	241	100	27.70
1149	.50	3.67	18.80	0.428	18.8	0.77	332	100	27.70
1157	.75	3.97	18.67	0.431	10.5	2.42	346	100	27.70
1206	1.00	4.18	18.73	0.433	13.2	0.88	324	100	27.70
1215	1.25	4.16	18.71	0.436	10.4	0.86	367	100	27.70
1224	1.50	4.14	18.66	0.437	8.9	0.90	370	100	27.70
1233	1.75	4.18	18.75	0.434	8.7	0.98	375	100	27.70
1236	Sample time MW-25								
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 few clouds		
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-26 DEPTH TO PRODUCT: _____ DATE: 5/28/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1158

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 9.94 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 20.7 _____

Arrived at: 1100 PURGE VOLUME: 10.76 x 0.163 = 1.75 x 3 WELL DIAMETER (inches):

Initial PID = _____ = 5.25 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: 1120	0.1	4.87	16.72	0.470	31.9	0.0	283	600 ( )	10.94
1128	1.0	5.02	16.92	0.498	3.9	0.0	286	600	10.70
1136	2.0	4.97	17.02	0.495	2.0	0.0	297	600	10.68
1142	3.0	4.95	16.99	0.498	2.3	0.0	299	600	10.68
1148	4.0	4.92	17.01	0.495	0.0	0.0	303	600	10.68
1154	5.0	4.96	17.09	0.497	0.0	0.0	303	600	10.68
1156	5.25	4.94	17.09	0.499	0.0	0.0	303	600	10.68

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, Temp 78°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-101 DEPTH TO PRODUCT: _____ DATE: 5/27/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1550

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 15.23 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 27.1 _____

Arrived at: 1440 PURGE VOLUME: 11.87x0.163 x 1.93x3 WELL DIAMETER (inches):
Initial PID = NA = 5.8 gal 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: 1455	0.1	4.70	19.08	0.206	177	1.61	267	400 ( )	16.34
1502	1.0	4.33	19.72	0.194	66.9	0.0	278	400	16.07
1510	2.0	4.77	20.08	0.200	48.4	0.0	285	400	16.11
1520	3.0	4.84	19.98	0.209	12.9	0.0	287	400	16.22
1530	4.0	4.77	19.89	0.217	8.6	0.0	296	400	16.39
1537	5.0	4.64	19.72	0.218	5.1	0.0	312	400	16.33
1543	5.5	4.58	19.68	0.217	4.6	0.0	312	400	16.32
1547	5.8	4.65	19.73	0.218	3.8	0.0	311	400	16.32

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	
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-102 DEPTH TO PRODUCT: _____ DATE: 5-27-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1610

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 23.23 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: ~~35.44~~ 32.65 _____

Arrived at: _____ PURGE VOLUME: _____ 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: 1420	0.25	4.74	20.99	0.433	95.8	1.79	270	200 ( )	~~35.44~~ 23.44
1445	1.5	4.62	22.46	0.436	191	1.55	277		~~24.12~~ 23.91
1455	2.0	4.64	22.89	0.477	244	1.52	278		24.17
1505	2.5	4.65	23.23	0.480	172	1.47	279		24.17
1515	3.0	4.69	23.40	0.480	125	1.42	281		24.17
1525	3.5	4.73	23.45	0.473	88.9	1.40	283		24.17
1535	4.0	4.74	23.53	0.462	47.3	1.37	~~280~~ 283		24.17
1545	4.5	4.78	21.17	0.467	26.2	1.60	284		24.17
1555	5.0	4.82	21.05	0.461	15.3	1.55	286		24.17
1605	5.5	4.83	21.03	0.461	7.9	1.58	286		24.17
1610	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Hot - 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: 6/1/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1238

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 13.24 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 39.3 _____

Arrived at: 1045 PURGE VOLUME: 26.06 x 0.163 = 4.25 WELL DIAMETER (inches):

Initial PID = _____ x3 = 12.75 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: 1110	0.1	6.49	20.90	0.761	32.0	0.0	-86	600 ( )	14.12
1130	2.5	6.58	20.87	0.776	1.6	0.0	-100	600	14.22
1145	5.0	6.77	20.86	0.773	0.0	0.0	-112	600	14.26
1200	7.5	6.74	20.77	0.773	0.0	0.0	-110	600	14.25
1215	10.0	6.67	20.98	0.766	0.0	0.0	-107	600	14.22
1222	11.0	6.64	21.34	0.769	0.0	0.0	-106	600	14.22
1229	12.0	6.66	21.56	0.767	0.0	0.0	-108	600	14.23
1236	13.0	6.72	21.04	0.766	0.0	0.0	-112	600	14.23

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 80°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-104D DEPTH TO PRODUCT: _____ DATE: 6/3/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1620

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-2 DEPTH TO WATER: 16.96 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

Time of ~~1167~~ 1200 TOTAL DEPTH: 82.5 _____

Arrived at: 1110 PURGE VOLUME: 65.54x0.163=10.7x3 WELL DIAMETER (inches):

Initial PID = _____ 32.1 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: 1130	0.1	6.45	19.91	3.03	62.1	0.02	-93	600 ( )	22.75
1150	4.0	6.54	21.27	3.06	46.4	0.0	-119	800	36.85
1210	8.0	6.64	20.99	3.00	19.1	0.0	-128	800	~~56.~~ 56.90
1230	12.0	6.66	22.93	3.00	10.2	0.0	-138	800	66.84
1240	14.0	6.65	22.22	3.05	39.8	0.0	-138	800	75.33
1245	15.0	6.58	23.22	3.10	49.7	0.0	-130	800	79.3

COMMENTS: Water has solvent odor. Well has slow recharge. Well is dry after removing 15 gal from well. Will let well recharge and sample with bailer

* Collect DUP-2 at 1200 time

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 80°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-105 DEPTH TO PRODUCT:_____ DATE: 6-1-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1300

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 12.74 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 27.07

27.07 - 12.74 = 14.33 x .17 = 2.43 x 3 = 7.30

Arrived at:_____ PURGE VOLUME: 7.30 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: 1022	0.25	5.88	19.13	0.539	>1000	9.89	233	300 ( )	13.92
1035	1.0	5.64	19.35	0.536	>1000	9.42	231	200	15.29
1055	2.0	5.76	20.16	0.512	183	7.37	208	200	15.33
1115	3.0	5.77	20.62	0.512	134	7.17	205	200	15.33
1135	4.0	5.76	21.10	0.514	117	6.68	203	200	15.33
1155	5.0	5.75	21.39	0.520	168	6.34	200	200	15.33
1215	6.0	5.73	21.95	0.517	195.2	6.08	199	200	15.33
1235	7.0	5.79	22.53	0.520	62.1	5.86	196	200	15.33
1245	7.5	5.76	22.63	0.525	57.4	0.34	196	200	15.33
1255	8.0	5.76	22.49	0.523	42.1	0.17	195	200	15.33
1300	collect sample								

COMMENTS: Note - Pump ELECTRICAL FAULT @4.5 Gallons - reset & restarted - TURB. went up.

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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	HOT - HUMID - 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-106D DEPTH TO PRODUCT:_____ DATE: 6/2/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1520

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 24.81 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 72.8 _____

Arrived at: 1130 PURGE VOLUME: 47.99x0.163=7.8x3 WELL DIAMETER (inches):

Initial PID = _____ 23.4 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: 1200	0.1	6.27	22.19	0.914	7.9	8.50	227	400 ( )	26.9
1230	2.5	6.32	20.25	0.986	0.0	1.88	179	400	31.45
1300	5.0	6.33	20.62	0.945	0.0	0.0	178	400	32.95
1320	7.5	6.51	20.71	0.938	0.0	0.0	171	600	38.85
1340	10.0	6.50	20.78	0.929	0.0	0.0	173	600	40.75
1400	12.5	6.48	20.87	0.944	0.0	0.0	175	600	43.08
1420	15.0	6.49	21.14	0.950	0.0	0.0	174	600	44.50
1440	17.5	6.49	21.35	0.953	0.0	0.0	173	800	45.38
1455	20.0	6.46	21.50	0.956	0.0	0.0	173	800	45.67
1510	22.5	6.46	21.32	0.961	0.0	0.0	173	800	46.26
1518	23.5	6.46	21.44	0.963	0.0	0.0	172	800	46.28

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 85°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-107D DEPTH TO PRODUCT:_____ DATE: 6-1-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1550

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 20.64 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 49.78

49.78 - 20.64 = 29.14 x .17 = 4.95 x 3 = 14.86

Arrived at:_____ PURGE VOLUME: 14.86 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: 1317	0.25	6.40	26.63	0.423	96.8	6.42	209	400 ( )	21.02
1325	1.0	6.40	24.48	0.432	245	5.77	210		~~21.48~~ 21.48
1355	4.0	6.43	23.19	0.443	307	5.21	205		21.97
1425	7.0	6.44	23.54	0.443	76.2	8.30	210		22.42
1455	10.0	6.44	22.66	0.444	38.6	8.35	213		22.99
1525	13.0	6.43	21.83	0.444	15.9	7.92	220		23.17
1535	14.0	6.41	21.91	0.444	3.8	7.41	230		23.17
1545	15.0	6.41	21.93	0.443	1.6	6.92	235		23.17
1550	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~2~~ 3	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	HOT - 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-108 DEPTH TO PRODUCT: _____ DATE: 5-28-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1145

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.31 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 36.10

36.10 - 19.31 = 16.79 x .17 = 2.85 x 3 = 8.5G

Arrived at: _____ PURGE VOLUME: 8.5 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: 1020	0.5	4.96	18.31	0.451	695	0.61	322	400 ( )	19.89
1025	1.0	4.83	18.65	0.451	443	0.40	324		19.89
1035	2.0	5.08	18.86	0.462	281	0.06	317		19.89
1045	3.0	5.23	18.79	0.470	109	0.05	312		19.89
1055	4.0	5.29	18.76	0.472	63.9	0.04	309		19.89
1105	5.0	5.41	18.77	0.479	25.2	0.03	306		19.89
1115	6.0	5.47	18.80	0.484	17.1	0.02	303		19.89
1125	7.0	5.58	18.86	0.496	12.6	0.02	298		19.89
1135	8.0	5.60	18.88	0.497	9.1	0.01	297		19.89
1140	8.5	5.63	18.87	0.498	7.2	0.01	296		19.89
1145	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	HOT - 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-109 DEPTH TO PRODUCT: _____ DATE: 6-3-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1300

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-1 DEPTH TO WATER: 14.38 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 33.31

33.31 - 14.38 = 18.93 x .17 = 3.21 x 3 = 9.65

Arrived at: _____ PURGE VOLUME: 9.65 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: 1137	0.25	4.44	20.49	2.34	3.54	4.28	259	500 ( )	14.66
1143	1.0	4.46	20.09	2.35	21.1	1.12	242		14.66
1159	3.0	4.48	19.73	2.40	3.1	0.05	220		14.66
1215	5.0	4.50	19.83	2.42	2.6	0.00	211		
1231	7.0	4.50	19.88	2.42	3.2	0.0	210		
1239	8.0	4.50	19.95	2.42	5.0	0.0	205		
1248	9.0	4.50	19.98	2.42	4.3	0.0	205		
1256	10.0	4.50	20.01	2.42	3.2	0.0	206		
1300	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs (NOT ON DUP-1)

GENERAL INFORMATION		
WEATHER:	HOT - 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-110 DEPTH TO PRODUCT:_____ DATE: 5-29-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1330

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 26.64 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 78.85 _____

78.85-26.64=52.21x.17=8.87x3=26.62

Arrived at:_____ PURGE VOLUME: 26.62 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: 1037	1.0	5.29	20.86	0.612	9.5	0.53	315	600 ( )	27.36
1050	4.0	5.59	20.28	0.628	10.6	0.05	280		29.77
1110	7.0	5.62	20.08	0.632	6.3	0.0	270		30.61
1130	10.0	5.61	20.68	0.625	5.3	0.0	272		31.19
1150	13.0	5.54	20.54	0.624	4.4	0.0	273		31.19
1210	16.0	5.53	20.45	0.623	4.8	0.0	273		31.19
1230	19.0	5.58	20.23	0.631	2.7	0.0	270		31.19
1250	22.0	5.59	20.31	0.630	2.9	0.0	269		31.19
1310	25.0	5.61	20.36	0.631	2.5	0.0	269		31.19
1317	26.0	5.62	20.42	0.630	2.6	0.0	268		31.19
1324	27.0	5.62	20.43	0.631	2.7	0.0	268		31.19
1330	Collect MW-110 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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	3 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION			
WEATHER:	Hot - 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-111 DEPTH TO PRODUCT: _____ DATE: 6/3/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1548

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 18.94 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.2 _____

Arrived at: 1340 PURGE VOLUME: 24.26 X 0.163 = 3.95 x 3 = 11.85 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: 1410	0.1	6.48	19.16	1.14	50.0	2.07	114	400 ( )	19.85
1430	2.0	6.02	20.05	1.18	25.0	0.0	107	400	20.15
1450	4.0	5.98	19.85	1.18	3.6	0.0	111	400	20.25
1505	6.0	5.98	19.64	1.18	0.7	0.0	108	500	20.24
1520	8.0	5.97	19.55	1.18	0.2	0.0	108	500	20.38
1535	10.0	5.97	19.53	1.18	0.0	0.0	107	500	20.38
1545	12.0	5.96	19.49	1.18	0.0	0.0	107	500	20.38

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, Temp 80°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: 5/28/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1352

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.01 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 25.1 _____

Arrived at: 1248 PURGE VOLUME: 11.09x0.163 = 1.81x3 WELL DIAMETER (inches):

Initial PID = _____ =5.4 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: 1310	0.1	5.92	17.02	0.877	22.1	0.20	209	500 ( )	15.50
1318	1.0	6.08	17.24	0.866	1.9	0.0	185	500	15.49
1326	2.0	6.08	17.23	0.856	0.2	0.0	183	500	15.48
1334	3.0	6.07	17.20	0.853	0.0	0.0	179	500	15.48
1340	4.0	6.07	17.28	0.851	0.0	0.0	176	500	15.48
1346	5.0	6.07	17.27	0.849	0.0	0.0	175	500	15.48
1350	5.5	6.08	17.16	0.849	0.0	0.0	174	500	15.48

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 80°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-113 DEPTH TO PRODUCT:_____ DATE: 6-2-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1420

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 27.51 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.70 _____

43.70 - 27.51 = 16.19 x .17 = 2.75 x 3 = 8.25

Arrived at:_____ PURGE VOLUME: 8.25 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: 1130	0.25	3.60	23.37	1.84	>1000	2.53	411	200 ( )	28.83
1150	1.0	3.65	23.01	1.95	433	1.28	358		30.42
1210	2.0	3.67	23.28	1.90	252	0.94	355		30.46
1230	3.0	3.68	23.47	1.91	135	0.66	354		30.46
1250	4.0	3.68	23.69	1.91	102	0.56	353		30.46
1310	5.0	3.70	23.26	1.88	73.2	0.37	358		30.46
1330	6.0	3.70	23.13	1.87	52.7	0.28	365		30.46
1350	7.0	3.67	23.07	1.90	27.4	0.17	366		30.46
1410	8.0	3.66	22.96	1.89	14.1	0.10	367		30.46
1415	8.25	3.68	22.79	1.89	9.2	0.09	366		30.46
1420	Collect Sample								

COMMENTS: Note - Also collected 2- 1-L AMBER FOR TREATABILITY STUDY

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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	HOT - 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-114 DEPTH TO PRODUCT:_____ DATE: 6-2-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1630

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 25.12 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 45.90

45.90 - 25.12 = 20.78 x .17 = 3.53 x 3 = 10.59

Arrived at:_____ PURGE VOLUME: 10.59 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: 1502	0.25	4.03	20.57	0.904	>1000	2.31	407	400 ( )	25.82
1508	1.0	4.01	20.47	0.905	647	1.13	407	500	25.82
1524	3.0	3.99	20.04	0.928	102	0.41	403	500	25.82
1540	5.0	4.01	19.55	0.935	67.5	0.0	397	500	25.82
1556	7.0	4.01	19.48	0.940	44.3	0.0	393		25.82
1612	9.0	4.03	19.60	0.943	28.7	0.0	368		25.82
1620	10.0	4.03	19.54	0.943	14.9	0.0	368		25.82
1628	11.0	4.03	19.55	0.944	7.4	0.0	367		25.82
1630	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	Hot - 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-115 DEPTH TO PRODUCT: _____ DATE: 6/1/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1508

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 13.21 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 21.9 _____

Arrived at: 1335 PURGE VOLUME: 8.69 x 0.163 = 1.4 x 3 WELL DIAMETER (inches):

Initial PID = _____ 4.2 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: 1420	0.1	3.76	20.33	1.04	28.4	0.0	384	450 ( )	13.28
1430	1.0	3.59	20.60	1.06	0.0	0.0	413	450	13.28
1440	2.0	3.61	20.31	1.06	0.0	0.0	414	450	13.28
1450	3.0	3.63	20.53	1.07	0.0	0.0	414	450	13.28
1500	4.0	3.66	20.49	1.07	0.0	0.0	413	450	13.28
1505	4.5	3.69	21.13	1.07	0.0	0.0	412	450	13.28

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, Temp 86°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-116 DEPTH TO PRODUCT: _____ DATE: 5-28-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1400

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 28.08 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 33.36

33.36 - 28.08 = 5.28 x .17 = 0.89 x 3 = 2.69

Arrived at: _____ PURGE VOLUME: 2.69 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: 1305	0.25	4.87	19.51	0.879	113	5.61	319	200 ( )	28.19
1310	0.5	4.46	19.20	0.816	76.6	4.42	328		28.31
1315	0.75	4.45	18.95	0.817	114	3.18	330		28.31
1320	1.0	4.39	19.10	0.804	63.5	2.45	331		
1325	1.25	4.40	19.21	0.796	50.8	2.58	331		
1340	2.0	4.35	19.41	0.801	34.9	2.61	337		
1350	2.5	4.25	19.73	0.834	3.4	1.43	347		
1355	2.75	4.25	19.71	0.836	3.1	1.38	347		
1400	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:	Hot - 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-117 DEPTH TO PRODUCT: _____ DATE: 6-2-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1100

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 12.00 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 24.97

24.97-12.00 = 12.97 x .17 = 2.20 x 3 = 6.61

Arrived at: _____ PURGE VOLUME: 6.61 WELL DIAMETER (inches): 2-inch

Initial PID = _____

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: 947	0.25	4.18	20.81	0.305	>1000	1.98	329	400 ( )	12.38
955	1.0	4.25	20.33	0.301	>1000	1.82	337		
1005	2.0	4.29	20.15	0.308	624	1.57	365		
1015	3.0	4.39	20.00	0.306	411	1.36	366		
1025	4.0	4.40	19.84	0.305	135	1.30	373		
1035	5.0	4.38	19.75	0.305	79.4	1.31	377		
1045	6.0	4.39	19.53	0.304	32.3	1.27	379		
1050	6.5	4.40	18.37	0.305	11.7	1.23	381		
1055	7.0	4.41	18.40	0.305	8.1	1.20	382		
1100		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 mL PL	1	none	9056	Nitrate and Sulfate
~~40 mL GL~~	~~3~~	~~HCL~~	~~8260~~	~~Site Specific VOCs~~

GENERAL INFORMATION			
WEATHER:	HOT - 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: 6-5-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1355

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 42.31 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 54.43 _____

54.43 - 42.31 = 12.12 x 1.17 = 2.06 x 3 = 6.18

Arrived at:_____ PURGE VOLUME: 6.18 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: 1150	0.25	6.59	23.46	0.480	>1000	1.69	93	200 ( )	42.63
1205	1.0	6.44	22.83	0.483	422	0.57	62		42.63
1225	2.0	6.61	23.22	0.486	128	0.30	40		42.63
1245	3.0	6.89	23.77	0.483	38.7	0.12	27		42.63
1305	4.0	6.96	23.56	0.477	26.1	0.05	25		42.63
1325	5.0	7.00	23.24	0.475	14.2	0.0	8		42.63
1345	6.0	7.03	23.81	0.474	6.1	0.0	3		42.63
1350	6.25	7.01	23.45	0.474	5.3	0.0	3		42.63
1355	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 mL PL	1	none	9056	Nitrate and Sulfate
40 mL GL	~~3~~ 2	HCL	8260	Site-Specific VOCs

GENERAL INFORMATION		
WEATHER:	HOT - 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-120 DEPTH TO PRODUCT: _____ DATE: 6-3-15 Sampled on 6-4-15 @ 1530

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1530

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 44.62 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 65.48 _____

65.48-44.62 = 20.86 x .17 = 3.54 x 3 = 10.63

Arrived at: _____ PURGE VOLUME: 10.63 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: 1455	0.25	6.40	23.86	0.542	50.4	1.98	215	[illegible] (200)	47.58
1410	1.0	6.54	23.18	0.545	62.0	0.73	209	[illegible] 200	48.93
1430	2.0	6.55	23.41	0.560	64.2	0.42	157	200	49.97
1510	4.0	6.57	23.07	0.563	763	0.31	146	200	53.21
1515	- will	purge well dry -						500	
1540	well	dry after	purging 5.5 Gallons				-		

COMMENTS: Pump Not Holding Steady Flow Rate. Well Drawn Down - will increase Pumping Rate and purge well dry - Will allow Well to recharge over night Before Collecting Samples

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:	HOT - CLOUDY - HUMID - 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-121 DEPTH TO PRODUCT: _____ DATE: 6/5/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1222

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 15.89 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 35.4 _____

Arrived at: 1020 PURGE VOLUME: 19.51 X 0.163 = 3.2 x 3 = 9.6 gal 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: 1045	0.1	5.74	18.79	0.313	1.8	0.72	176	300 ( )	17.80
1105	2.0	6.22	18.65	0.292	0.0	0.0	154	400	18.22
1125	4.0	6.34	18.61	0.289	0.0	0.0	146	400	18.54
1145	6.0	6.38	18.67	0.290	0.0	0.0	148	400	18.67
1155	7.0	6.35	18.65	0.291	0.0	0.0	148	400	18.88
1205	8.0	6.34	18.79	0.292	0.0	0.0	149	400	18.89
1215	9.0	6.35	18.88	0.292	0.0	0.0	149	400	18.93
1221	9.6	6.35	18.86	0.292	0.0	0.0	149	400	18.96

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:	Clear, Temp 80°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-1 DEPTH TO PRODUCT: _____ DATE: 5-28-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1222

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 14.93 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 24.85 _____

Arrived at: 1050 PURGE VOLUME: 9.92 X .04 X 3 = 1.19 gal 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: 1107		5.99	20.22	0.285	627	2.84	121	100 ( )	16.00
1116	.25	6.02	20.10	0.278	155	0.72	99	100	16.45
1125	.50	6.03	20.05	0.279	145	0.71	98	100	16.45
1134	.75	6.02	20.18	0.282	34.1	0.59	81	100	16.45
1143	1.00	6.02	20.19	0.291	41.2	0.50	75	100	16.45
1152	1.25	6.02	20.27	0.291	31.2	0.32	54	100	16.45
1201	1.50	6.01	19.81	0.283	37.4	0.37	58	100	16.45
1210	1.75	6.00	19.75	0.284	19.7	0.33	59	100	16.45
1217	2.00	6.01	19.07	0.283	9.79	0.30	59	100	16.45
1222	Sample		Hose TW-1						
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:	Cloudy Hot humid		
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-2 DEPTH TO PRODUCT: _____ DATE: 5-28-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1412

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 21.10 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 30.30 _____

Arrived at: 1306 PURGE VOLUME: 9.2 X .04 X 3 = 1.10 gal 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: 1316		4.63	23.12	0.274	19.2	0.46	111	100 ( )	22.15
1324	.25	4.66	23.08	0.274	14.4	0.42	106	100	22.15
1334	.50	4.83	23.01	0.271	2.7	0.30	119	100	22.15
1343	.75	4.95	22.97	0.271	1.5	0.29	124	100	22.15
1352	1.00	5.02	22.90	0.271	0.0	0.15	192	100	22.15
1401	1.25	5.06	22.79	0.270	0.0	0.20	189	100	22.15
1410	1.50	5.08	22.64	0.270	0.0	0.18	193	100	22.15
1412	Sample time TW-2								
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:	Cloudy Hot humid		
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-3 DEPTH TO PRODUCT: _____ DATE: 6/5/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1140

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 24.57 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 41.00

Arrived at: 1030 PURGE VOLUME: 16.43 x .04 x 3 = 1.97 WELL DIAMETER (inches): 2-inch

Initial PID = _____

Balling 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: 1050		2.60	18.61	1.07	436	1.64	317	200 ( )	25.40
1058	.50	2.59	18.34	1.08	345	1.25	330	200	25.40
1106	1.00	2.61	18.25	1.07	360	1.12	334	200	25.40
1114	1.50	2.49	17.65	0.986	48.2	0.28	376	200	25.40
1122	2.00	2.46	17.52	0.951	23.2	0.55	388	200	25.40
1130	2.50	2.48	17.41	0.956	10.3	0.50	396	200	25.40
1138	3.00	2.49	17.36	0.958	4.2	0.54	393	200	25.40
1140	Sample time TW-3								

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 Clear Hot	
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-4 DEPTH TO PRODUCT: _____ DATE: 5-29-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1318

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 26.25 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 34.70 _____

Arrived at: 1210 PURGE VOLUME: 8.45X.04X3=1.0(sa) 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: 1230		4.20	21.65	0.291	<800	2.17	254	100 ( )	26.70
1239	.25 gal	4.06	20.69	0.275	171	1.61	325	100	26.99
1246	.50 gal	4.04	20.36	0.270	84.5	1.24	344	100	26.99
1257	.75 gal	3.99	20.55	0.268	23.4	1.18	358	100	26.99
1306	1.00 gal	4.03	20.46	0.269	1.6	1.20	360	100	26.99
1315	1.25	4.00	20.66	0.268	0.0	1.17	365	100	26.99
1318	Sample from TW-4								
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 Clear HOT		
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-5 DEPTH TO PRODUCT: _____ DATE: 6/1/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1335

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 20.95 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 33.70 _____

Arrived at: 1204 PURGE VOLUME: 12.75 x .04 X3 = 1.53 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: 1230		5.27	21.36	1.22	190	1.07	344	100 ( )	21.30
1239	.25	5.01	21.32	1.21	184	0.68	352	100	21.35
1248	.50	4.95	21.38	1.21	172	0.56	354	100	21.35
1257	.75	4.76	21.53	1.19	27.9	0.25	360	100	21.35
1306	1.00	4.75	21.72	1.19	20.9	0.23	361	100	21.35
1315	1.25	4.79	21.69	1.19	7.8	0.28	352	100	21.35
1324	1.50	4.80	21.00	1.20	9.0	0.27	358	100	21.35
1333	1.75	4.78	20.84	1.20	9.7	0.20	360	100	21.35
1335	Sample	time	TW-5						

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:	Cloudy Humid Hot	
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-6 DEPTH TO PRODUCT:_____ DATE: 6/1/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1118

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER: 23.79 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 41.11 _____

Arrived at: 1010 PURGE VOLUME: 17.32 X .04 X 3 = 2.08 gal WELL DIAMETER (inches): 2-inch

Initial PID = _____

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 1030		3.74	19.56	0.692	3.1	1.60	411	200 ( )	24.00
1035	.25	3.47	19.93	0.739	1.4	1.41	380	200	24.03
1040	.50	5.45	19.15	~~2.03~~	0.7	0.57	275	200	24.03
1045	.75	5.42	19.16	2.03	1.4	0.54	276	200	24.03
1050	1.00	5.35	19.03	1.79	0.8	0.33	290	200	24.03
1055	1.25	5.21	19.05	1.78	0.5	0.31	290	200	24.03
1100	1.50	5.18	19.09	1.72	0.9	0.26	293	200	24.03
1105	1.75	5.16	19.00	1.71	0.4	0.26	294	200	24.03
1110	2.00	5.13	19.01	1.69	0.1	0.22	297	200	24.03
1115	2.25	5.12	19.06	1.68	0.3	0.20	299	200	24.03
1118	Sample time TW-6								

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:	Cloudy Humid Hot		
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-1 DEPTH TO PRODUCT: _____ DATE: 6/5/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1341

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.64 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 33.50 _____

Arrived at: 1226 PURGE VOLUME: 13.86 x .0483 = 1.66 WELL DIAMETER (Inches): 2-inch

Initial PID = _____

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		2.52	22.07	5.38	44.7	1.32	328	100 ( )	21.80
1244	.25	2.53	20.36	5.34	16.4	0.18	285	100	26.34
1253	.50	3.55	20.32	5.29	105	0.41	225	100	28.40
1303	.75	3.51	20.34	5.27	240	0.37	230	100	29.35
1312	1.00	3.50	20.37	5.27	262	0.16	224	100	29.40
1321	1.25	3.63	20.44	5.30	90.3	0.05	231	100	29.40
1330	1.50	3.64	20.56	5.31	33.7	0.00	232	100	30.00
1339	1.75	3.64	20.50	5.30	15.7	0.00	230	100	30.41
1341	Sample time TW-7								

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	3	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 Few clouds Hot		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mark D.	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: 6/2/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1522

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 18.46 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 31.10 _____

Arrived at: 1400 PURGE VOLUME: 12.64 X .04 X 3 = 1.52 Gal 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: 1450		7.07	25.56	2.16	7.5	2.74	-76	200 ( )	18.80
1455	.25	5.70	23.24	2.36	5.5	0.88	-14	200	14.80
1500	.50	5.10	20.42	2.39	5.1	0.58	16	200	14.80
1505	.75	4.38	19.50	2.03	0.0	0.23	61	200	18.80
1510	1.00	4.37	19.57	2.01	0.0	0.21	63	200	18.80
1515	1.25	4.35	19.49	1.99	0.0	0.19	64	200	18.80
1520	1.50	4.32	19.57	1.99	0.0	0.17	66	200	18.80
1522	Sample from TW-8								

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 few clouds Hot	
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]

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: TW-9 DEPTH TO PRODUCT: _____ DATE: 6/8/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1141

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.41 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 36.13 _____

Arrived at: 1030 PURGE VOLUME: 16.72 X .04 X 3 = 1.94 WELL DIAMETER (inches):

Initial PID = _____

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: 1059		2.23	21.75	0.662	279	1.16	330	200 ( )	20.70
1104	.25	2.15	20.45	0.643	184	0.15	326	200	20.70
1109	.50	2.24	19.67	0.675	49.5	0.47	328	200	20.70
1114	.75	2.26	19.45	0.698	40.9	0.47	326	200	20.70
1119	1.00	2.33	19.20	0.708	36.4	0.74	327	200	20.70
1124	1.25	2.33	19.39	0.704	20.4	0.53	325	200	20.70
1129	1.50	2.39	19.31	0.712	19.8	0.25	322	200	20.70
1134	1.75	2.41	19.45	0.710	15.8	0.28	320	200	20.70
1139	2.00	2.42	19.47	0.710	10.2	0.25	320	200	20.70
1141	Sample	time	TW-9						

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
				5.4a VOCs

GENERAL INFORMATION			
WEATHER:	Sun & Hot Humid		
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]

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: TW-10 DEPTH TO PRODUCT: _____ DATE: 6/8/15

PURGE METHOD: Low Flow/Low Stress : TIME: 1257

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 16.96 DEPTH TO PASSIVE DIFFUSION BAG (btoc) _____

TOTAL DEPTH: 31.15

Arrived at: 1200 PURGE VOLUME: 14.19 X .04 X 3 = 1.70 WELL DIAMETER (inches): _____

Initial PID = _____

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: 1220		2.07	19.83	0.877	>800	1.20	359	200 ( )	17.10
1225	.25	2.00	18.57	0.836	266	2.30	424	200	17.10
1230	.50	1.96	17.41	0.835	18.0	1.86	458	200	17.10
1235	.75	1.96	17.37	0.834	13.4	1.58	459	200	17.10
1240	1.00	1.94	17.34	0.835	4.5	1.49	464	200	17.10
1245	1.25	1.92	17.30	0.834	5.2	1.52	465	200	17.10
1250	1.50	1.93	17.19	0.835	0.1	1.50	468	200	17.10
1255	1.75	1.93	17.15	0.835	0.5	1.53	469	200	17.10
1257	Sample Time TW-10								

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
				VOCs

GENERAL INFORMATION			
WEATHER:	Sunny Hot Humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	Mark D.	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: 5-27-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1529

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 29.77 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 44.80 _____

Arrived at: 1415 PURGE VOLUME: 15.03x.04x3=1.80 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		4.87	20.66	0.312	620	3.35	-6	150 ( )	30.50
1446	.25	4.51	18.75	0.334	457	2.46	201	150	30.51
1452	.50	4.46	18.47	0.337	114	1.91	333	150	30.51
1458	.75	4.43	18.25	0.341	85.1	1.88	346	150	30.51
1504	1.00	4.39	18.26	0.341	53.1	1.80	367	150	30.51
1510	1.25	4.34	18.24	0.342	22.0	1.70	393	150	30.51
1516	1.50	4.35	18.12	0.343	18.7	1.61	397	150	30.51
1522	1.75	4.39	17.93	0.345	12.3	1.60	402	150	30.51
1527	2.00	4.40	17.90	0.345	9.71	1.57	404	150	30.51
1529	Sample	from	TW-11						

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:	Cloudy Hot Humid		
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-12 DEPTH TO PRODUCT: _____ DATE: 5-27-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1309

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 33.65 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 44.95 _____

Arrived at: 1130 PURGE VOLUME: 11.3 X .04 X 3 = 1.36 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: 1210		4.89	22.74	0.263	12.9	3.41	289	150 ( )	33.85
1216	.25	4.87	20.62	0.276	15.2	3.57	288	150	33.91
1222	.50	4.85	19.98	0.273	15.3	3.51	289	150	33.95
1231	.75	4.89	19.01	0.164	16.3	3.09	304	100	33.95
1240	1.00	4.89	19.03	0.221	11.6	2.62	339	100	33.95
1249	1.25	4.91	17.80	0.205	6.6	2.54	360	100	33.95
1259	1.50	4.84	17.80	0.203	5.7	2.51	360	100	33.95
1307	1.75	4.86	17.79	0.203	2.7	2.47	361	100	33.85
1309	Sample from TW-12								

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:	Cloudy Hot humid	
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: OW-3 DEPTH TO PRODUCT: _____ DATE: 6-8-15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1230

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.62 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 42.88 _____

42.88-19.62=23.26x.17=3.95x3=11.86

Arrived at: _____ PURGE VOLUME: 11.86 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: 1028	0.25	4.51	19.15	0.769	892	0.97	278	400 ( )	20.28
1035	1.0	4.40	19.07	0.763	>1000	0.52	293		20.28
1055	3.0	4.49	19.19	0.760	>1000	0.34	298		20.28
1115	5.0	4.92	19.36	0.783	153	0.0	298		20.28
1135	7.0	4.91	19.53	0.785	75.9	0.0	300		20.28
1155	9.0	4.94	19.41	0.788	23.8	0.0	300		20.28
1215	11.0	4.95	19.55	0.788	6.7	0.0	298		20.28
1225	12.0	4.95	19.57	0.788	4.6	0.0	297		20.28
1230	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 mL PL	1	none	9056	Nitrate and Sulfate
~~40 mL GL~~	~~3~~	~~HCL~~	~~8260~~	~~Site-Specific VOCs~~

GENERAL INFORMATION			
WEATHER:	HOT - HUMID - CLOUDY		
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: OW-1 DEPTH TO PRODUCT: _____ DATE: 6/3/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1314

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 19.70 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.30 _____

Arrived at: 1110 PURGE VOLUME: 23.6 X .163 X 3 = 11.54 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: 1140		7.77	19.79	0.832	64.6	2.61	26	480 ( )	19.96
1148	1gal	8.11	17.94	0.808	28.1	1.66	-6	450	20.10
1204	3gal	6.35	18.12	0.746	10.1	0.79	69	450	20.00
1220	5gal	5.03	18.24	0.743	0.8	1.35	135	450	20.00
1236	7gal	5.20	17.82	0.743	0.0	N 0.69	119	450	20.01
1252	9gal	5.22	17.65	0.744	0.0	0.71	117	450	20.00
1308	11gal	5.25	17.75	0.743	0.0	0.70	110	450	20.00
1312	11.5gal	5.27	17.76	0.743	0.0	0.67	108	450	20.00
1314	Sample time		OW-1						

COMMENTS: Ants on top of the well (nest)

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 Hot Clear	
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: OW-2 DEPTH TO PRODUCT: _____ DATE: 6/7/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1511

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: 20.15 DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: 43.90 (Soft Bottom) _____

Arrived at: 1328 PURGE VOLUME: 23.75 X .163 X 3 = 11.61 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: 1335		5.84	18.07	0.948	306	1.09	108	450 ( )	20.39
1351	2 gal	5.80	17.67	0.974	66.9	0.24	96	450	20.39
1407	4 gal	5.86	17.77	1.03	28.2	0.20	87	450	20.39
1423	6 gal	5.89	17.83	1.05	34.4	0.51	57	450	20.39
1439	8 gal	5.95	17.95	1.21	20.7	0.64	37	450	20.39
1455	10 gal	5.96	17.93	1.23	15.7	0.60	40	450	20.39
1509	11.75 gal	5.97	17.87	1.20	10.2	0.63	43	450	20.39
1511	Sample the OW-2								
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~~	~~2~~	~~HCL~~	~~8260~~	~~Site-Specific VOCs~~

GENERAL INFORMATION			
WEATHER:	Sun 1 Hot		
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: SW-2010-5 DEPTH TO PRODUCT: _____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1435

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: _____ _____

Arrived at: 1424 PURGE VOLUME: _____ 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: 1435		7.44	19.50	0.423	0.0	3.64	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:	Cloudy Hot Humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	DH	OBSERVER:	EG & MD

[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: SW-2010-10 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1305

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1259 PURGE VOLUME:_____ 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: 1305		7.53	18.96	0.427	44.2	4.90	104	( )	
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:	Cloudy Hot Humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: EVC 6		OBSERVER: Daniel Hymacht	

[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: SW-2012-11 DEPTH TO PRODUCT: _____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1340

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: DUP-3 DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: _____ _____

Arrived at: 1335 PURGE VOLUME: _____ 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: 1340		7.34	18.75	0.505	26.6	4.54	95	( )	
COMMENTS:	DUP-3 Time 1200								

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:			
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: EG		OBSERVER: MH & DH	

[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: SW-2010-14 DEPTH TO PRODUCT: _____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1200

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF: _____ DEPTH TO WATER: _____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH: _____ _____

Arrived at: 1157 PURGE VOLUME: _____ 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: 1200		7.67	18.63	0.532	1.6	4.68	92	( )	
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:	Cloudy Hot Humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	MACK A	OBSERVER:	Evan G & Daniel H

[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: SW-2010-15 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1153

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1147 PURGE VOLUME:_____ 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: 1153		7.62	18.62	0.532	3.7	4.75	77	( )	
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:	Cloudy Hot humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	MarkH	OBSERVER:	Elmer Z Daniel H

[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: SW-2010-17 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1140

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1135 PURGE VOLUME:_____ 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: 1140		7.16	18.63	0.533	11.5	5.66	33	( )	
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:	Cloudy Hot humid
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER: Evar G	OBSERVER: Mark A & Daniel H

[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: SW-2014-20 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1255

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1248 PURGE VOLUME:_____ 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: 1255		7.09	18.18	0.193	137	2.94	153	( )	

COMMENTS: Treatability Sample taken at this location

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:			
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel H		OBSERVER: Mark A 2 Ever 6	

[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: SW-2014-21 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1332

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1326 PURGE VOLUME:_____ 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		6.82	17.83	0.797	0.2	2.14	135	( )	
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:	Cloudy Hot humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: DH		OBSERVER:	MAL EG

[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: InFlow-1 DEPTH TO PRODUCT:_____ DATE: 6/4/15

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1325

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1320 PURGE VOLUME:_____ 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:		7.12	18.40	0.789	0.3	3.37	136	( )	

COMMENTS: Treatability Sample taken at this location

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 Hot humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER:	EG	OBSERVER:	MA DH

[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

6/4/15

WELL ID: INAOW-2 DEPTH TO PRODUCT:_____ DATE: ~~12-20~~ MA

PURGE METHOD: Low Flow/Low Stress :Pump TIME: 1220

SAMPLE METHOD: Pump per SESDPROC 301-R1 GRAB (x) COMPOSITE ( )

DUP./REP. OF:_____ DEPTH TO WATER:_____ DEPTH TO PASSIVE DIFFUSION BAG (btoc)

TOTAL DEPTH:_____ _____

Arrived at: 1215 PURGE VOLUME:_____ 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: 1220		7.60	14.12	0.641	3.6	0.0	-49	( )	
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:	Cloudy Hot humid		
SHIPPED VIA:	FedEX or lab courier		
SHIPPED TO:	AES -Atlanta, GA		
SAMPLER: Daniel H		OBSERVER: Evan G Mark A	

[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

TREATABILITY STUDY

TREATABILITY TEST REPORT
FORMER ESTECH GENERAL CHEMICAL SITE
ATLANTA, GEORGIA

Purpose and Objectives

A bench-scale treatability study was conducted to evaluate the feasibility and effectiveness of two treatment process materials for reducing or removing metals, pesticides, and volatile organic compounds (VOCs) from groundwater and surface water at this site. Bench-scale materials tested include limestone and bio-available adsorbent /granular carbon media (BAM). A conceptual remediation approach is under consideration at this site that would consist of pumping impacted groundwater and discharging it back into the subsurface through an infiltration gallery of limestone, possibly amended by BAM, to treat constituents of concern. Construction of a surficial limestone permeable reactive barrier (PRB) is also being considered to address seep areas with elevated concentrations of metals and pesticides that surface near an unnamed stream.

Treatability Study of Limestone and BAM

Limestone and BAM were tested as follows:

- Batch testing was performed on site groundwater collected from wells within the source area and surface water collected from the seeps and unnamed stream.
- The following locations were chosen for each batch based on the highest constituent concentrations:

Groundwater Metals Batch (Limestone and BAM)
TW-7
MW-113
MW-109

Groundwater Pesticide Batch (Limestone and BAM)
TW-8
MW-111
MW-109

Groundwater VOCs Batch (BAM only)

MW-104D

MW-120

TW-3

Surface Water – Pesticide and Metal Batch (Limestone Only)

SW2014-20

SW2014-21

Inflow-1

- The samples were transported from the field to the controlled environment treatability laboratory for the study.
- The samples were homogenized into four different batches, as described above, for use in the testing.
- Control samples (initial baseline) of each batch homogenized source were prepared and analyzed.
- Samples from the groundwater VOCs batch, metals batch, and pesticide batch were shipped to Orin Technologies for the BAM treatability study. Three samples of groundwater were prepared in jars with 50% BAM and 50% groundwater by volume. These samples were analyzed at 12, 24, and 96 hour durations for VOCs, metals, and pesticides.
- Three samples of groundwater were prepared in jars with 50% limestone (#57 stone) and 50% groundwater by volume in Amec Foster Wheeler's treatability laboratory. These samples were analyzed at 12, 24, and 96 hour duration for metals and pesticides.
- Likewise, three samples of surface water were prepared in jars with 50% limestone and 50% surface water by volume in Amec Foster Wheeler's treatability laboratory. These samples were analyzed for metals and pesticides.
- Sampling of the groundwater and surface water exposure to limestone media occurred at 12 hours, 24 hours and 96 hours, including measurement of parameters pH, ORP, and temperature at the time of each sampling event.
- The laboratory analyses were conducted using USEPA Method 6020 for total metals (arsenic, copper, lead, and zinc), EPA Method 8081B for site-specific pesticides, and EPA Method 8260B for site-specific VOCs for both the control and test samples.

The laboratory analysis were performed by subcontractor laboratory Analytical Environmental Services, Inc. (AES).

Results - Limestone Media

The limestone media used for testing consisted of a #57 high calcium limestone sample from the Dalton, Georgia Vulcan quarry. The quarry indicated that the limestone had a pH of 9. In support of metal precipitation (see Attachment A), when the pH rises above 6 (pH units) copper concentrations begin to decrease and are expected to fall below the 1.3 mg/L Type 1 Risk Reduction Standard (RRS) at a pH of approximately 7.5. For zinc concentrations, when the pH rises above 7 (pH units) zinc concentrations begin to decrease and are expected to fall below the 2 mg/L Type 1 RRS at a pH of approximately 8.5. The laboratory analytical reports are provided in Attachment B.

Surface Water - Metal

The limestone had a beneficial effect on metals in the surface water, as indicated by raising the pH level by approximately 0.8 pH units (from 6.41 to 7.18 pH), reducing the concentration of zinc by 93% and copper by 98%. Zinc was reduced by 93%. Concentrations in the control sample were relatively consistent throughout the study. Figure 1 page 1 shows the results graphically.

Surface Water – Pesticide

Overall, pesticide concentrations were low in the surface water control. The limestone had a beneficial effect, reducing the concentration of alpha-BHC 83 %, beta-BHC by 93%, delta-BHC by 88%, and gamma-BHC by 80%. Toxaphene was not affected in the study. Concentrations in the control sample were relatively consistent throughout the study. Figure 1 page 2 shows the results graphically.

Groundwater Metals

In groundwater, the pH was increased 2.39 pH units (from 3.90 to 6.29 pH) with beneficial effect on metal concentrations. The limestone reduced the concentration of copper by 81% and zinc by 29%. Concentrations in the control sample were relatively consistent throughout the study. Figure 1 page 3 shows the results graphically.

Groundwater Pesticide

In general, the limestone appeared to have a beneficial effect on pesticides in groundwater as indicated by reductions of alpha-BHC 33 %, beta-BHC by 52%, delta-BHC by 55%, and gamma-BHC by 41%. Dieldrin had a reduction of 87%. The pH was increased from 5.93 to 6.58 (an increase of 0.65 pH units). Concentrations in the control sample were relatively consistent throughout the study. Figure 1 page 4 shows the results graphically.

Results - *BAM Media*

Groundwater VOCs

BAM was the only media used to evaluate treatment of VOCs in groundwater. Overall, approximately 96% reduction of VOCs was achieved. Individual VOC reductions ranged from 55 to 100%. See table listed below for reductions in VOCs. Concentrations in the control sample were relatively consistent throughout the study. Figure 2 page 1 shows the results graphically for selected VOCs.

Groundwater Pesticide

The concentrations of most pesticides showed rapid reductions within the first 12 hours after exposure to BAM. The toxaphene concentration showed a notable reduction in the control sample as well as the test samples. Figure 2 page 2 shows the results graphically.

Groundwater Total Metals

A comparison of initial control to 96 hour duration samples indicated that total metals were reduced, arsenic by 58%, copper by 61%, lead by 74%, and zinc by 26%, with exposure to the BAM. Concentrations in the control sample were relatively consistent throughout the study. Figure 2 page 3 shows the results graphically.

Groundwater Dissolved Metals

In comparison of initial control to 96 hour duration samples, indicated that some dissolved metals were reduced, copper by 43% and lead by 98%. Dissolved zinc did not show a reduction, and dissolved arsenic was not detected. Concentrations in the control sample were relatively consistent throughout the study. Figure 2 page 4 shows the results graphically.

Conclusions

Using limestone, the treatability study showed that increasing the pH resulted in a corresponding decrease in metals concentrations in groundwater and surface water. The limestone also appeared to have a beneficial effect on the pesticide concentrations. The BAM material showed very good reductions in VOC and pesticide concentrations, but lesser effect on metals. The results are summarized on the table below.

Parameter	Limestone Media (% Reduction)		BAM Media (%Reduction)
	Surface Water	Groundwater	Groundwater (initial compared to 96-hour test)
Arsenic	0	63	58 (tot) / ND (dissolved)
Copper	98	81	61 (tot) / 43 (dissolved)
Lead	0	86	74 (tot) / 98 (dissolved)
Zinc	93	29	26 (tot) / 0 (dissolved)
4,4-DDE	ND	ND	99
4,4-DDD	ND	94	99
4,4-DDT	ND	70	99
Alpha-BHC	83	33	100
Beta-BHC	93	52	100
Delta-BHC	88	55	99
Gamma-BHC	80	41	100
Dieldrin	0	87	99
Gamma-chlordane	ND	90	99
Toxaphene	ND	ND	99
Alpha-chlordane	ND	ND	99
Heptachlor	ND	ND	99
Methoxychlor	ND	ND	99

ND = Not Detected

Parameter: VOCs	BAM Media with Groundwater (% Reduction) at 96 hour
1,1,1-Trichloroethane	98
1,1-Dichloroethane	98
1,1-Dichloroethene	98
1,2,4-Trichlorobenzene	98
2-Butanone	94
4-Methyl-2-pentanone	100
Acetone	55
Benzene	98
Chlorobenzene	98
Chloroethane	98
Chloroform	98
cis-1,2-Dichloroethene	98
Ethylbenzene	100
Isopropylbenzene	98
Methylene Chloride	98
Tetrachloroethene	98
Toluene	100
trans-1,2-Dichloroethene	98
Trichloroethene	98
Vinyl chloride	98
Xylenes, Total	100

Based upon the results, both limestone and BAM have potential applicability for use in remediation at the BFEL Atlanta site. It is suspected that the lower percent reduction observed in the limestone test for zinc in groundwater in comparison to surface water is because of the much higher initial concentration of zinc in groundwater, which may have exhausted the assimilative capacity of the limestone in the jar test.

FIGURES

amec foster wheeler

Figure 1 - Limestone Media Results

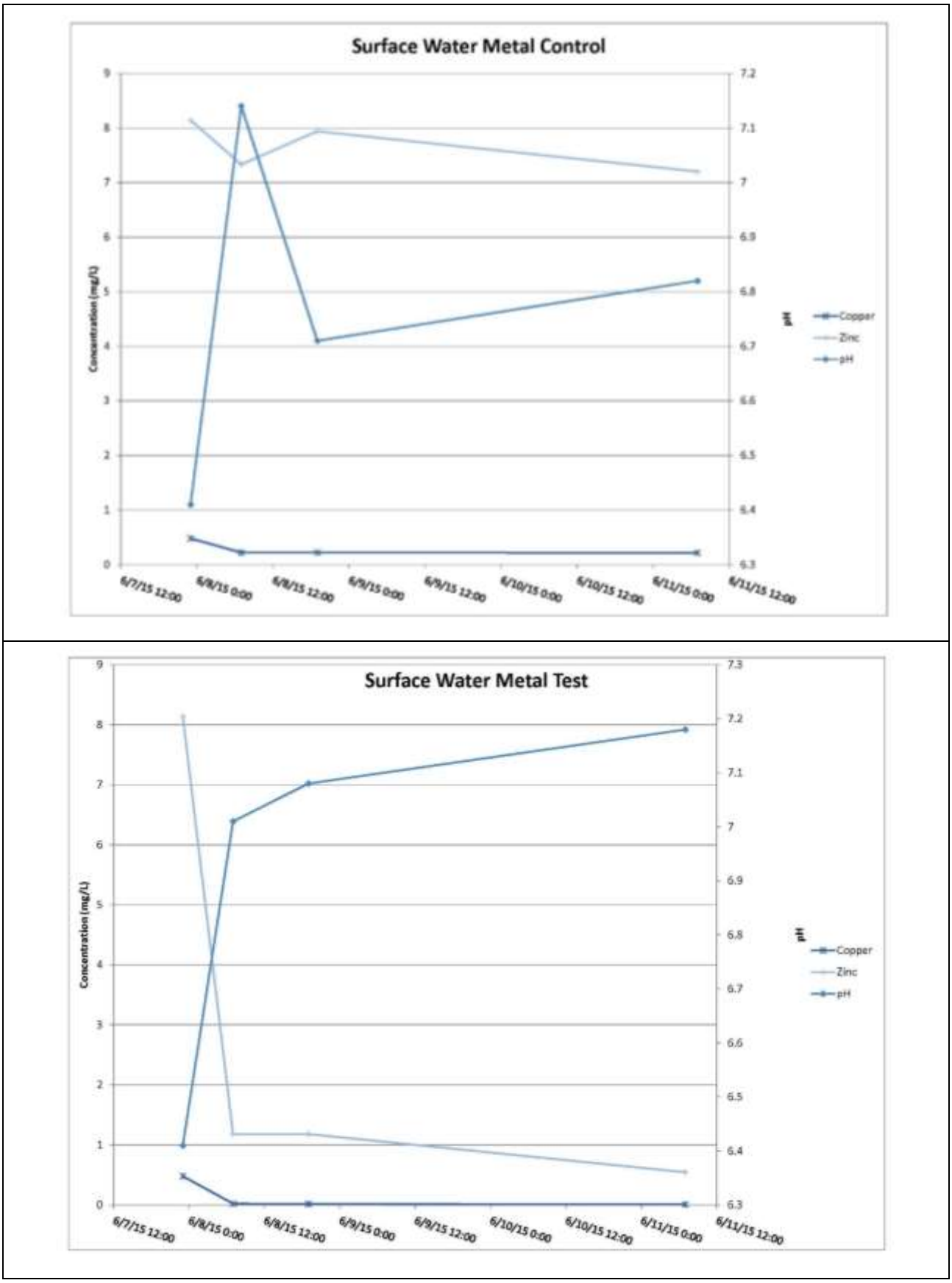


Figure 1 - Limestone Media Results

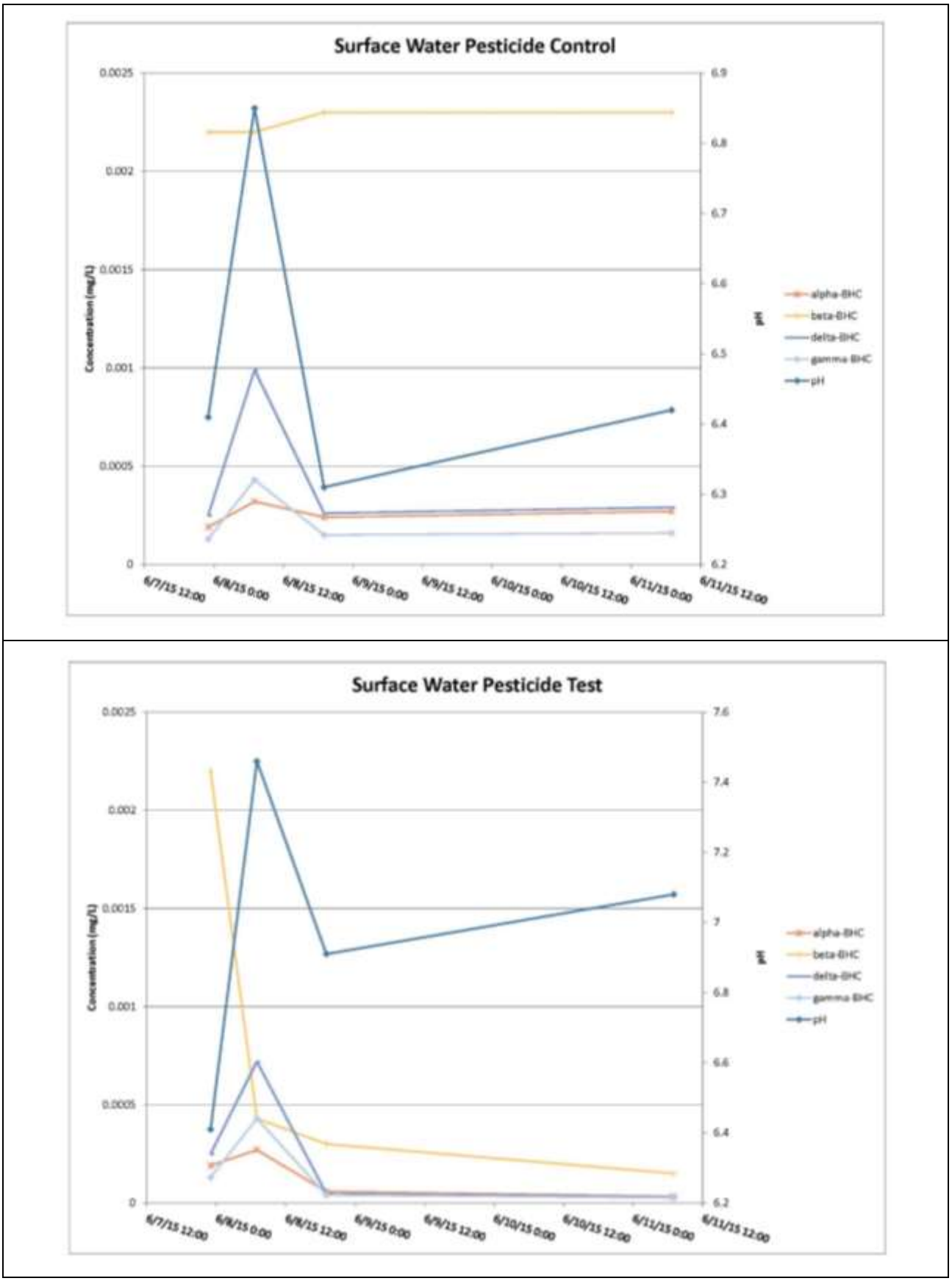


Figure 1 - Limestone Media Results

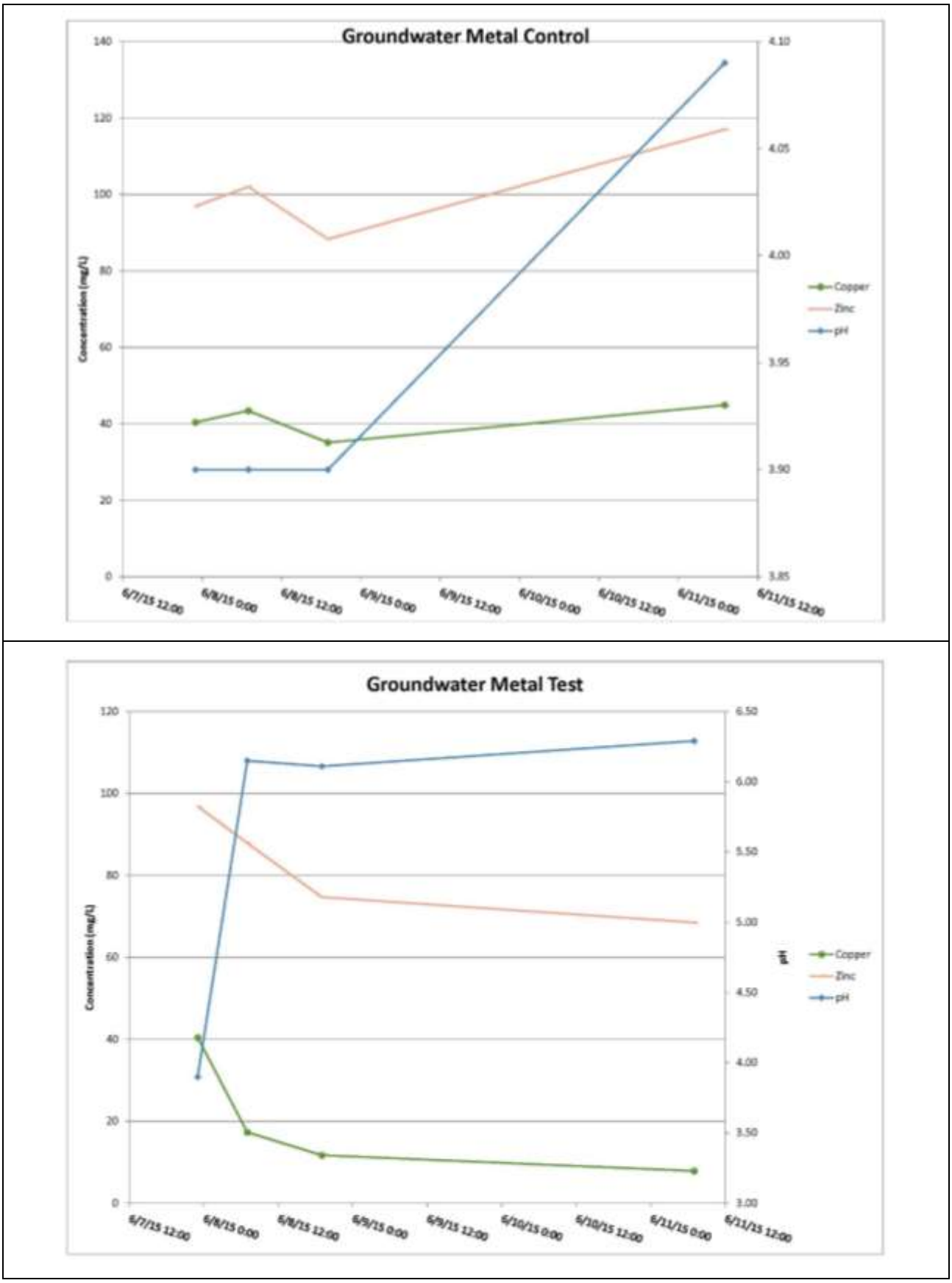
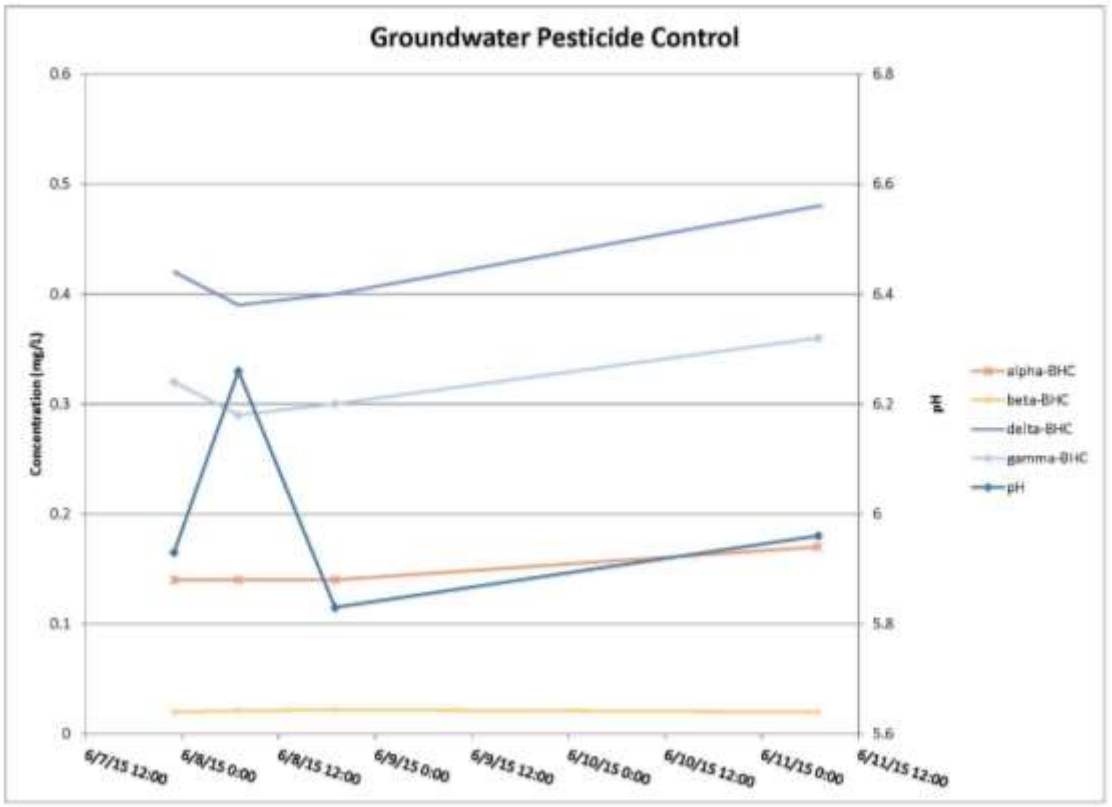
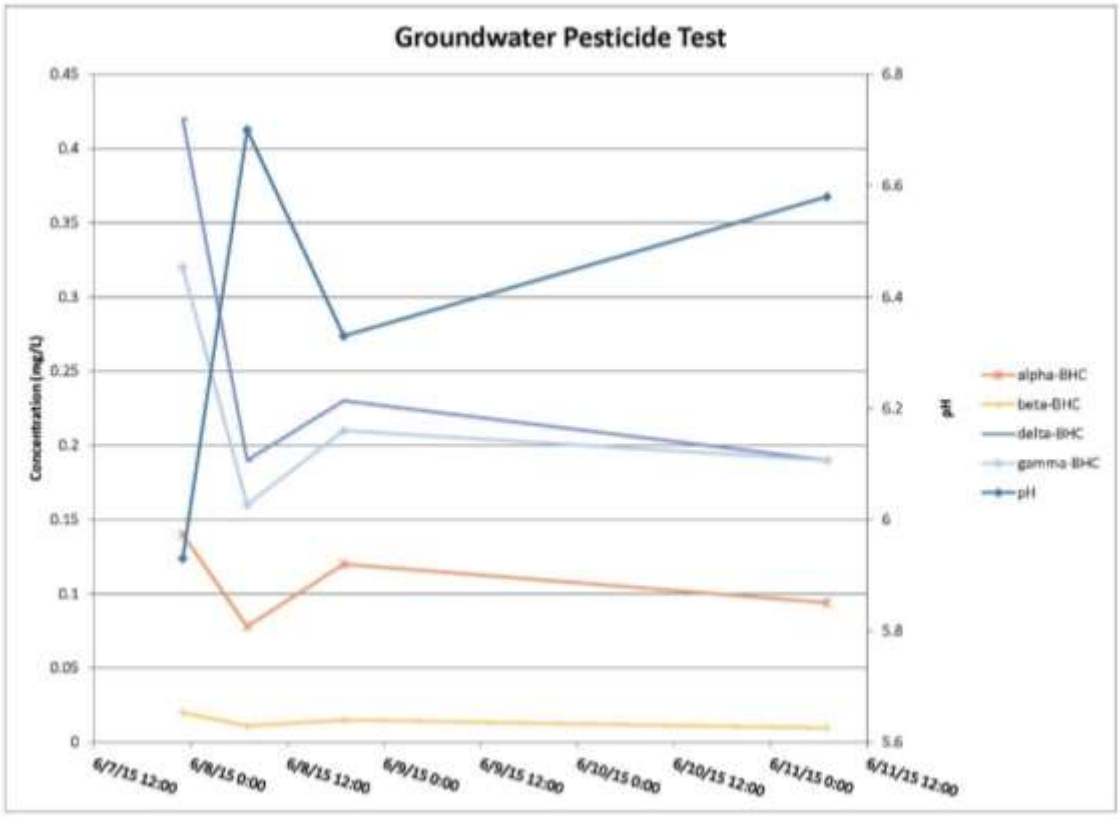


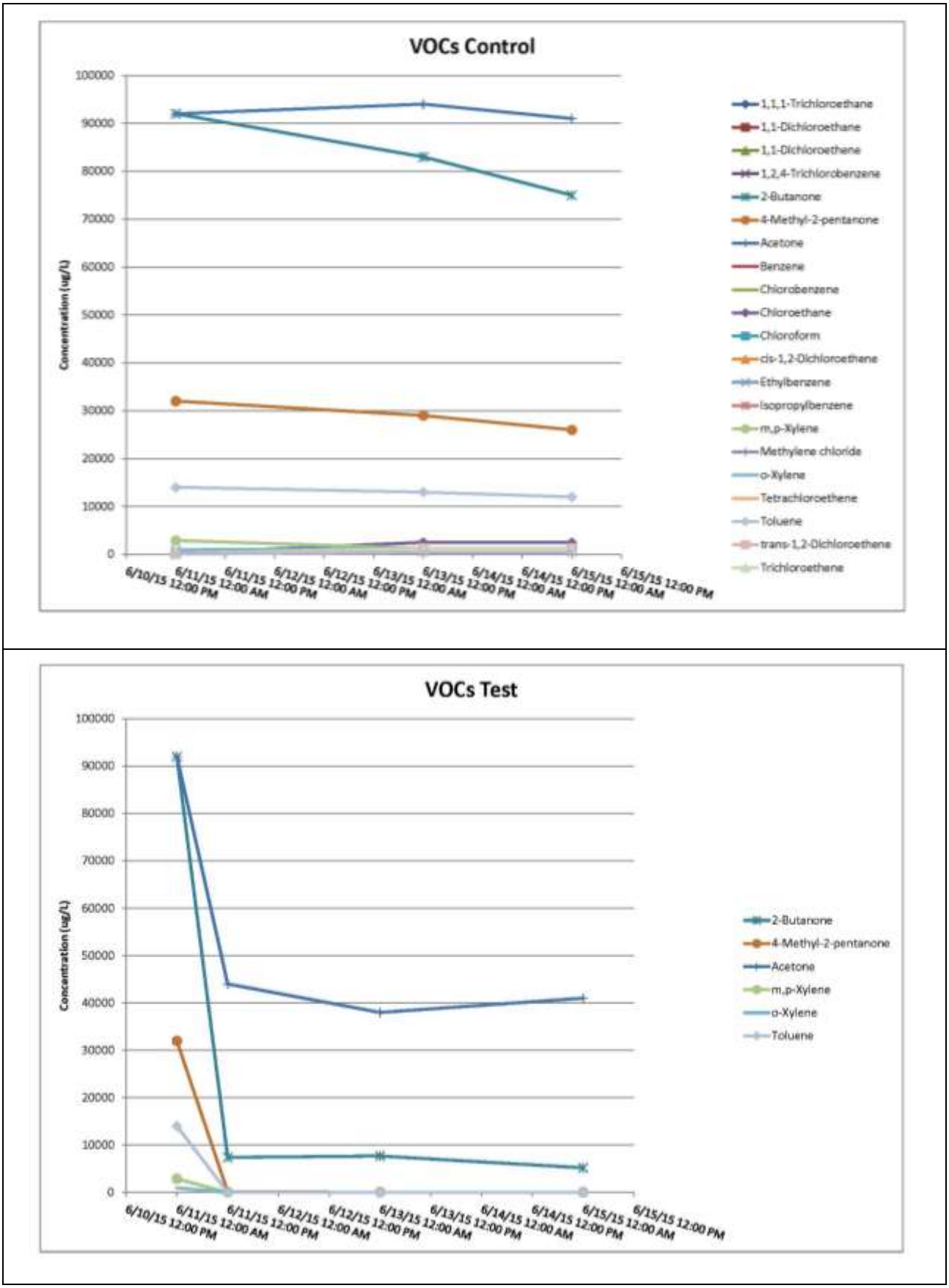
Figure 1 - Limestone Media Results





amec foster wheeler

Figure 2 - BAM Media Results



amec foster wheeler

Figure 2 - BAM Media Results

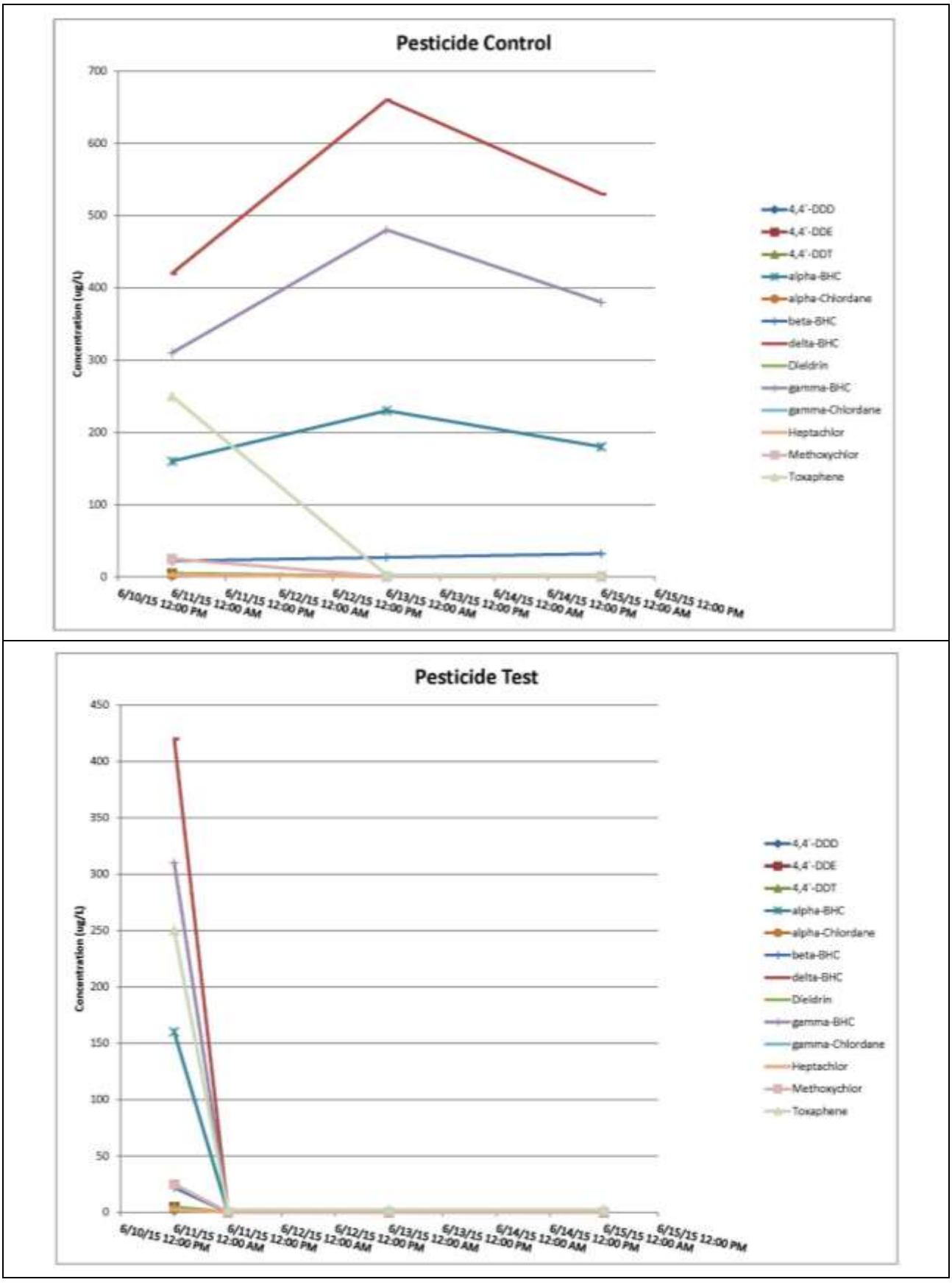
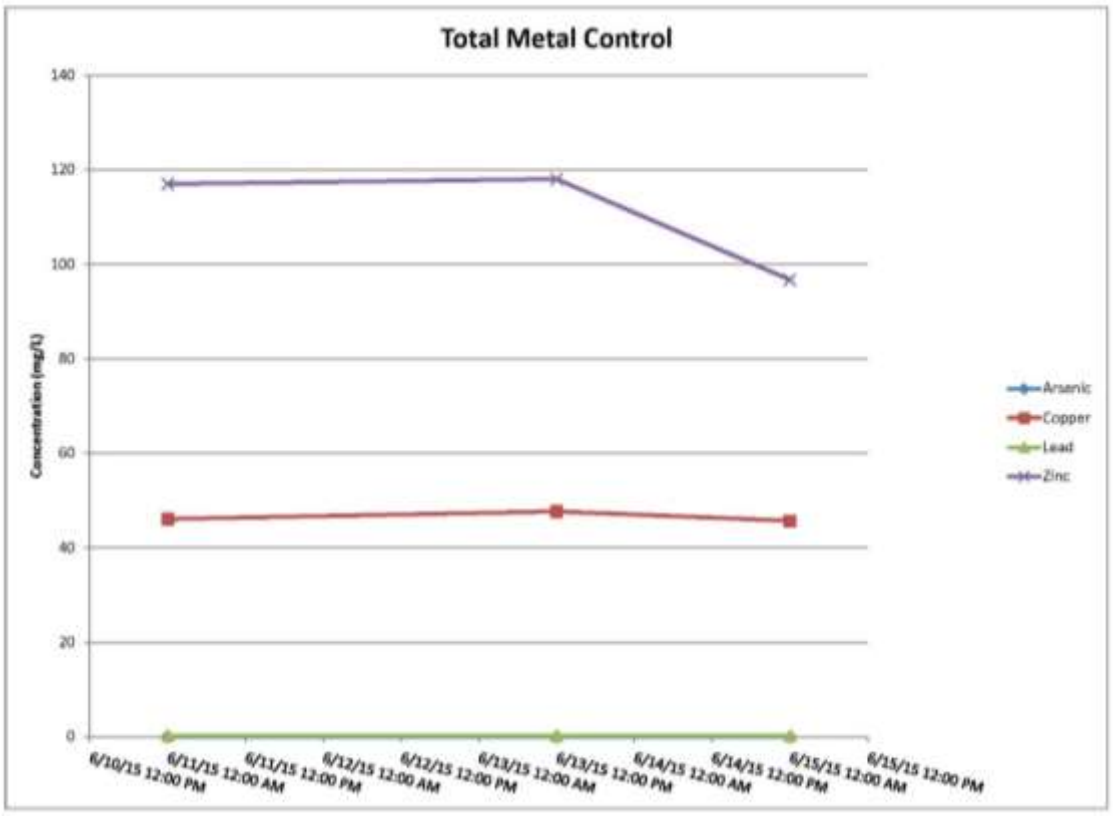


Figure 2 - BAM Media Results



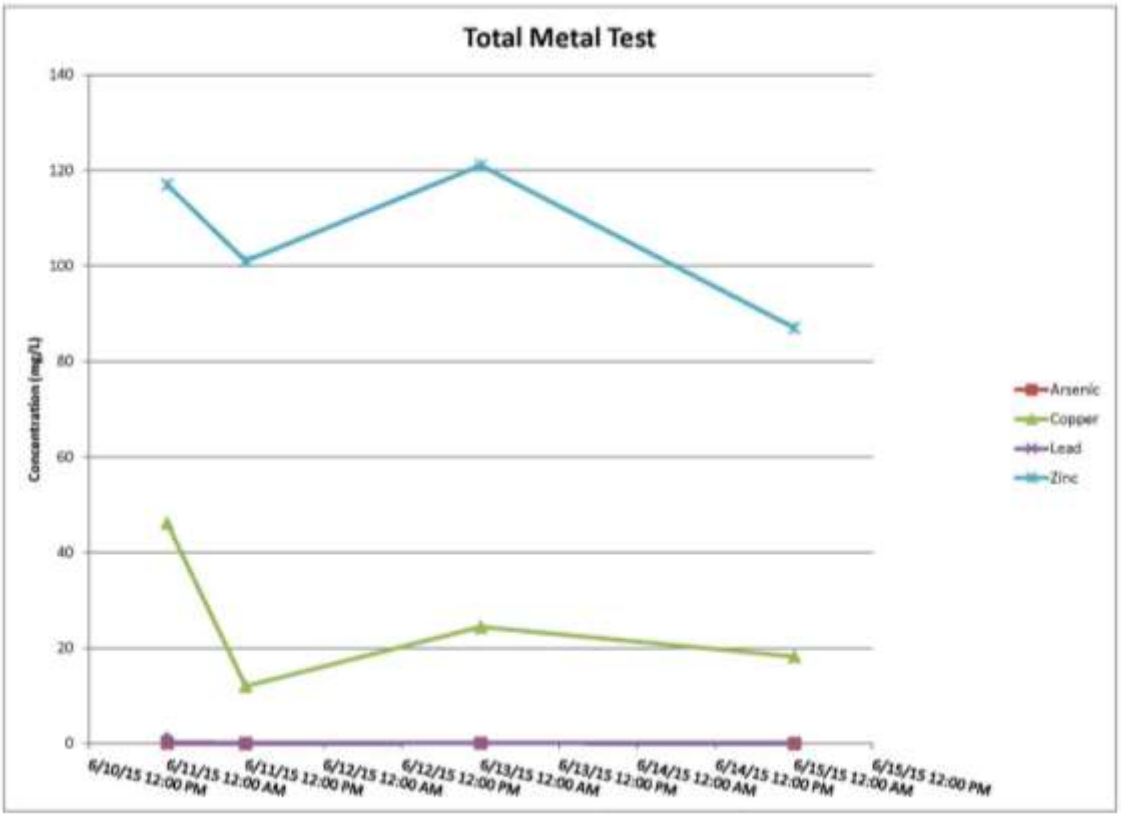
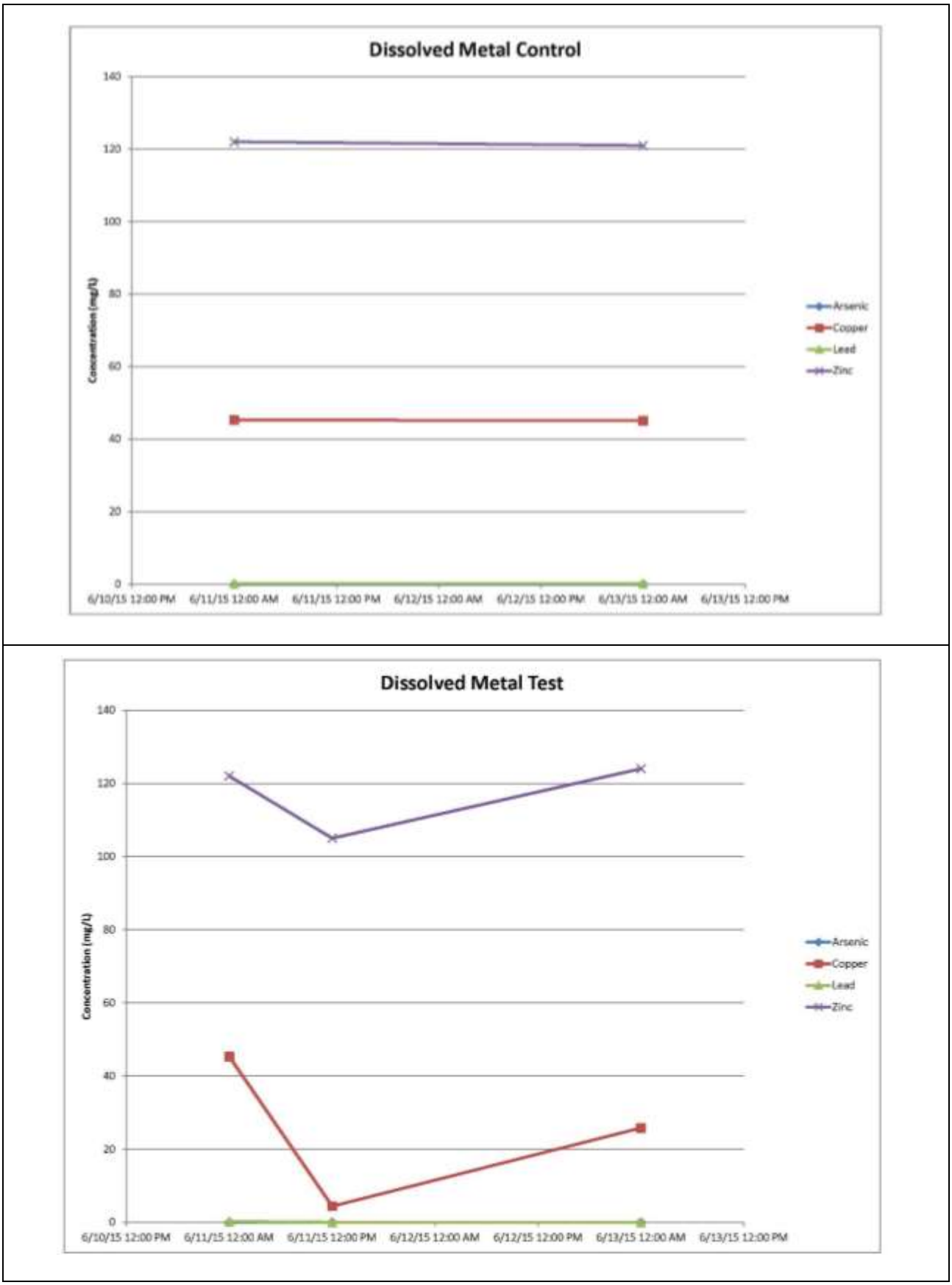
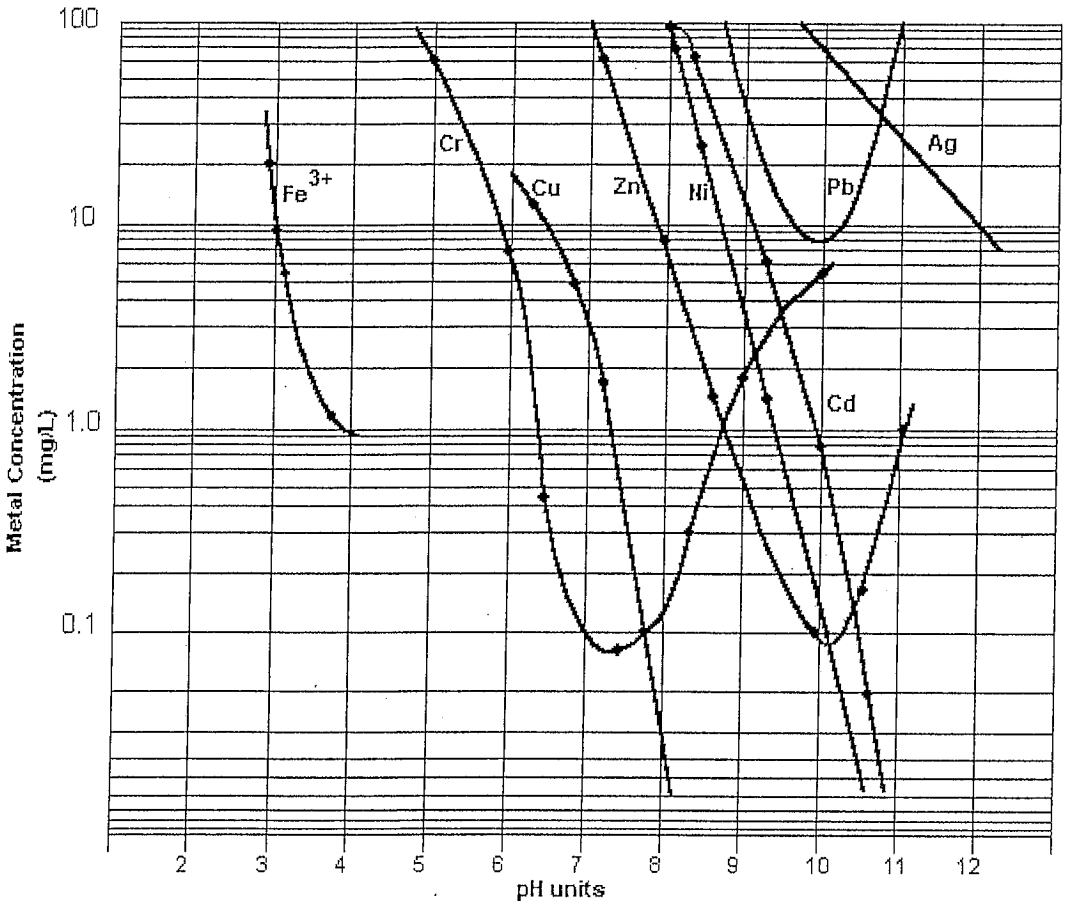


Figure 2 - BAM Media Results



ATTACHMENT A

METALS CONCENTRATIONS VS. PH


100
10
1.0
0.1
Metal Concentration (mg/L)
Fe3+
Cr
Cu
Zn
Ni
Pb
Ag
Cd
2
3
4
5
6
7
8
9
10
11
12
pH units

ATTA CHMENT B

LABORATORY REPORTS

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 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: 1506915

Analytical Environmental Services, Inc. received 13 samples on 6/8/2015 12:22:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
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: 1506915

Date: 06/7/15 Page 1 of 1

COMPANY:	ADDRESS:
AMEC Foster Wheeler	1075 Big Shanty Rd Kennesaw GA 30144
PHONE: 770 421-3400	FAX: 770-421-3486
SAMPLED BY: T. Kinnard/Terrell Parker	SIGNATURE:

ANALYSIS REQUESTED

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

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Metals (total)	Pesticides	Metals (dissolved) Mercury/Sulfate 6010	PRESERVATION (See codes)	REMARKS	No # of Containers
1	GW Metal Cont-01HR-060715	6/7/15	18:40	X		GW	1			1		1
2	GW Pest Cont-01HR-060715	6/7/15	18:50	X		GW		1		1	Limited Vol. for Analysis	2
3	SW Pest Cont-01HR-060715	6/7/15	19:15	X		SW		1		1		2
4	SW Metal Cont-01HR-060715	6/7/15	19:30	X		SW			1		Already Filtered	1
5	GW Metal Cont-12HR-060815	6/8/15	08:00	X		GW	1			1	Filter upon Rcpt. Limited Vol. for Analysis	2
6	GW Pest Cont-12HR-060815	6/8/15	07:25	X		GW		1		1		2
7	SW Pest Cont-12HR-060815	6/8/15	08:48	X		SW		1		1		2
8	SW Metal Cont-12HR-060815	6/8/15	09:35	X		SW			1	1	Filter upon Rcpt	2
9	GW Metal Test-12HR-060815	6/8/15	08:05	X		GW	1			1		2
10	GW Pest Test-12HR-060815	6/8/15	07:28	X		GW		1		1		2
11	SW Pest Test-12HR-060815	6/8/15	08:45	X		SW		1		1 6-8-15		2
12	SW Metal Test-12HR-060815	6/8/15	09:30	X		SW			1	1	Filter upon Rcpt	2
13	FilterBlank-060715	6/7/15	20:15	X		WATER			1		Already Filtered	1
14												

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6-8-15 11:16 Amec	1:	6-8-15 11:16
2:	6-8-15 12:22	2: Miriam Pacurar	06/08/2015 12:22PM (Courier)
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL Atlanta

PROJECT #: 6122-08-0154.18

SITE ADDRESS:

SEND REPORT TO: Rhonda Dunaj/Terrell Parker

INVOICE TO: (IF DIFFERENT FROM ABOVE) + Tanya Kinnard

QUOTE #: 57422 PO#:

RECEIPT

Total # of Containers: 13

Turnaround Time Request

- X Standard 5 Business Days
- O 2 Business Day Rush
- O Next Business Day Rush
- O Same Day Rush (auth req.)
- O Other

STATE PROGRAM (if any): GA

E-mail? (Y)/N; Fax? Y (N)

DATA PACKAGE: I (II) III IV

SPECIAL INSTRUCTIONS/COMMENTS:

Metals List: As, Cu, Pb, Zn

Pesticides: See Site List (Table 2 ATTACHED)

Report metals to MDL

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

Cooler # 1 = 3.2 °C

White Copy - Original; Yellow Copy - Client

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL Atlanta
Lab ID: 1506915

Case Narrative

Per Tanya Kinnard via email, the samples were not analyzed for Nitrate and Sulfate.

Sample Receiving Nonconformance:

The sample for metals analysis submitted for 1506915-009 as received did not meet the method specified pH range for the requested test method. No attempt to further adjust the pH was made due to sample matrix.

Metals Analysis by Method 6020:

Zinc was detected in Method Blank 208628 at 43.62µg/L, which was above the reporting limit of 10µg/L resulting in "B" qualified data for the Batch QC samples and all samples with final reporting limits less than the value detected in the method bank. Associated sample values were greater than approximately 10x the blank value, and data was not affected.

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METAL CONT-0HR-060715
Project Name:	BFEL Atlanta	**Collection Date:**	6/7/2015 6:40:00 PM
Lab ID:	1506915-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**					
Arsenic	0.0658		0.00167	0.0500	mg/L	208628	10	06/15/2015 15:34	JS
Copper	40.4		0.00204	0.0200	mg/L	208628	10	06/15/2015 15:34	JS
Lead	0.364		0.00309	0.0100	mg/L	208628	10	06/15/2015 15:34	JS
Zinc	96.9		0.0688	0.200	mg/L	208628	20	06/15/2015 17:24	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST CONT-0HR-060715
Project Name:	BFEL Atlanta	**Collection Date:**	6/7/2015 6:50:00 PM
Lab ID:	1506915-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	0.00082		0.0000082	0.00010	mg/L	208575	1	06/13/2015 00:53	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 00:53	SH
4,4´-DDT	0.00070		0.0000063	0.00010	mg/L	208575	1	06/13/2015 00:53	SH
alpha-BHC	0.14		0.00075	0.0050	mg/L	208575	100	06/12/2015 16:10	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 00:53	SH
beta-BHC	0.020		0.00038	0.0050	mg/L	208575	100	06/12/2015 16:10	SH
delta-BHC	0.42		0.0018	0.025	mg/L	208575	500	06/13/2015 11:29	SH
Dieldrin	0.00094		0.0000072	0.00010	mg/L	208575	1	06/13/2015 00:53	SH
gamma-BHC	0.32		0.0032	0.025	mg/L	208575	500	06/13/2015 11:29	SH
gamma-Chlordane	0.00025		0.0000047	0.000050	mg/L	208575	1	06/13/2015 00:53	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 00:53	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 00:53	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 00:53	SH
Surr: Decachlorobiphenyl	71.3		0	14.6-130	%REC	208575	1	06/13/2015 00:53	SH
Surr: Tetrachloro-m-xylene	112		0	14.4-116	%REC	208575	1	06/13/2015 00:53	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST CONT-0HR-060715
Project Name:	BFEL Atlanta	**Collection Date:**	6/7/2015 7:15:00 PM
Lab ID:	1506915-003	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 01:11	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 01:11	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 01:11	SH
alpha-BHC	0.00019		0.0000075	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
beta-BHC	0.0022		0.000038	0.00050	mg/L	208575	10	06/12/2015 16:29	SH
delta-BHC	0.00025		0.0000035	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
Dieldrin	0.000031	J	0.0000072	0.00010	mg/L	208575	1	06/13/2015 01:11	SH
gamma-BHC	0.00013		0.0000063	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 01:11	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 01:11	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 01:11	SH
Surr: Decachlorobiphenyl	63		0	14.6-130	%REC	208575	1	06/13/2015 01:11	SH
Surr: Tetrachloro-m-xylene	65.6		0	14.4-116	%REC	208575	1	06/13/2015 01:11	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METAL CONT-0HR-060715
Project Name:	BFEL Atlanta	**Collection Date:**	6/7/2015 7:30:00 PM
Lab ID:	1506915-004	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.000623	J	0.000167	0.00500	mg/L	208554	1	06/11/2015 21:59	JS
Copper	0.480		0.000204	0.00200	mg/L	208554	1	06/12/2015 12:24	JS
Lead	0.000311	J	0.000309	0.00100	mg/L	208554	1	06/11/2015 21:59	JS
Zinc	8.14		0.00344	0.0100	mg/L	208554	1	06/11/2015 21:59	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METAL CONT-12HR-06081
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 8:00:00 AM
Lab ID:	1506915-005	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.0690		0.000167	0.00500	mg/L	208628	1	06/12/2015 17:19	MR
Copper	43.4		0.00204	0.0200	mg/L	208628	10	06/15/2015 15:39	JS
Lead	0.402		0.000309	0.00100	mg/L	208628	1	06/12/2015 17:19	MR
Zinc	102		0.0688	0.200	mg/L	208628	20	06/15/2015 17:29	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST CONT-12HR-060815
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 7:25:00 AM
Lab ID:	1506915-006	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	0.00065		0.0000082	0.00010	mg/L	208575	1	06/13/2015 01:30	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 01:30	SH
4,4´-DDT	0.00051		0.0000063	0.00010	mg/L	208575	1	06/13/2015 01:30	SH
alpha-BHC	0.14		0.00075	0.0050	mg/L	208575	100	06/12/2015 17:25	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 01:30	SH
beta-BHC	0.021		0.00038	0.0050	mg/L	208575	100	06/12/2015 17:25	SH
delta-BHC	0.39		0.0018	0.025	mg/L	208575	500	06/13/2015 11:47	SH
Dieldrin	0.00078		0.0000072	0.00010	mg/L	208575	1	06/13/2015 01:30	SH
gamma-BHC	0.29		0.0032	0.025	mg/L	208575	500	06/13/2015 11:47	SH
gamma-Chlordane	0.00017		0.0000047	0.000050	mg/L	208575	1	06/13/2015 01:30	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 01:30	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 01:30	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 01:30	SH
Surr: Decachlorobiphenyl	61		0	14.6-130	%REC	208575	1	06/13/2015 01:30	SH
Surr: Tetrachloro-m-xylene	70.5		0	14.4-116	%REC	208575	1	06/13/2015 01:30	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST CONT-12HR-060815
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 8:48:00 AM
Lab ID:	1506915-007	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 01:48	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 01:48	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 01:48	SH
alpha-BHC	0.00032		0.0000075	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
beta-BHC	0.0022		0.000038	0.00050	mg/L	208575	10	06/12/2015 22:26	SH
delta-BHC	0.00099		0.0000035	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
Dieldrin	0.000032	J	0.0000072	0.00010	mg/L	208575	1	06/13/2015 01:48	SH
gamma-BHC	0.00043		0.0000063	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 01:48	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 01:48	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 01:48	SH
Surr: Decachlorobiphenyl	57.8		0	14.6-130	%REC	208575	1	06/13/2015 01:48	SH
Surr: Tetrachloro-m-xylene	54		0	14.4-116	%REC	208575	1	06/13/2015 01:48	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METAL CONT-12HR-06081
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 9:35:00 AM
Lab ID:	1506915-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.000539	J	0.000167	0.00500	mg/L	208554	1	06/11/2015 22:06	JS
Copper	0.219		0.000204	0.00200	mg/L	208554	1	06/11/2015 22:06	JS
Lead	BRL		0.000309	0.00100	mg/L	208554	1	06/11/2015 22:06	JS
Zinc	7.33		0.00344	0.0100	mg/L	208554	1	06/11/2015 22:06	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METAL TEST-12HR-06081
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 8:05:00 AM
Lab ID:	1506915-009	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.0340		0.000167	0.00500	mg/L	208628	1	06/12/2015 17:25	MR
Copper	17.3		0.00204	0.0200	mg/L	208628	10	06/15/2015 15:44	JS
Lead	0.130		0.000309	0.00100	mg/L	208628	1	06/12/2015 17:25	MR
Zinc	87.9		0.0344	0.100	mg/L	208628	10	06/15/2015 15:44	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST TEST-12HR-060815
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 7:28:00 AM
Lab ID:	1506915-010	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 02:06	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 02:06	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 02:06	SH
alpha-BHC	0.078		0.00075	0.0050	mg/L	208575	100	06/12/2015 22:44	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 02:06	SH
beta-BHC	0.011		0.00038	0.0050	mg/L	208575	100	06/12/2015 22:44	SH
delta-BHC	0.19		0.0018	0.025	mg/L	208575	500	06/13/2015 12:06	SH
Dieldrin	0.00014		0.0000072	0.00010	mg/L	208575	1	06/13/2015 02:06	SH
gamma-BHC	0.16		0.0032	0.025	mg/L	208575	500	06/13/2015 12:06	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 02:06	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 02:06	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 02:06	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 02:06	SH
Surr: Decachlorobiphenyl	61.6		0	14.6-130	%REC	208575	1	06/13/2015 02:06	SH
Surr: Tetrachloro-m-xylene	43.9		0	14.4-116	%REC	208575	1	06/13/2015 02:06	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST TEST-12HR-060815
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 8:45:00 AM
Lab ID:	1506915-011	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 02:25	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 02:25	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 02:25	SH
alpha-BHC	0.00027		0.0000075	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
beta-BHC	0.00043		0.0000038	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
delta-BHC	0.00072		0.0000035	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
Dieldrin	BRL		0.0000072	0.00010	mg/L	208575	1	06/13/2015 02:25	SH
gamma-BHC	0.00043		0.0000063	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 02:25	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 02:25	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 02:25	SH
Surr: Decachlorobiphenyl	62.4		0	14.6-130	%REC	208575	1	06/13/2015 02:25	SH
Surr: Tetrachloro-m-xylene	59.1		0	14.4-116	%REC	208575	1	06/13/2015 02:25	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METAL TEST-12HR-060815
Project Name:	BFEL Atlanta	**Collection Date:**	6/8/2015 9:30:00 AM
Lab ID:	1506915-012	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.00133	J	0.000167	0.00500	mg/L	208554	1	06/11/2015 22:12	JS
Copper	0.0206		0.000204	0.00200	mg/L	208554	1	06/12/2015 12:30	JS
Lead	0.000627	J	0.000309	0.00100	mg/L	208554	1	06/11/2015 22:12	JS
Zinc	1.18		0.00344	0.0100	mg/L	208554	1	06/11/2015 22:12	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	FILTER BLANK-060715
Project Name:	BFEL Atlanta	**Collection Date:**	6/7/2015 8:15:00 PM
Lab ID:	1506915-013	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	BRL		0.000167	0.00500	mg/L	208554	1	06/19/2015 14:37	JS
Copper	0.000947	J	0.000204	0.00200	mg/L	208554	1	06/19/2015 14:37	JS
Lead	BRL		0.000309	0.00100	mg/L	208554	1	06/19/2015 14:37	JS
Zinc	BRL		0.00344	0.0100	mg/L	208554	1	06/10/2015 00:58	JS

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.

Sample/Cooler Receipt Checklist

Client AMEC/KENNESAW Work Order Number 1506915

Checklist completed by Miriam Bauer 06/08/2015
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted ✓ Yes __ No __

Water - pH acceptable upon receipt? Yes __ No ✓ Not Applicable __

Adjusted? _____ Checked by MIRIAM

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: 18-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Lab Order: 1506915

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506915-001A	GW METAL CONT-0HR-06071	6/7/2015 6:40:00PM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/15/2015
1506915-002A	GW PEST CONT-0HR-060715	6/7/2015 6:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506915-002A	GW PEST CONT-0HR-060715	6/7/2015 6:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-003A	SW PEST CONT-0HR-060715	6/7/2015 7:15:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506915-003A	SW PEST CONT-0HR-060715	6/7/2015 7:15:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-004A	SW METAL CONT-0HR-06071	6/7/2015 7:30:00PM	Surface Water	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506915-004A	SW METAL CONT-0HR-06071	6/7/2015 7:30:00PM	Surface Water	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/12/2015
1506915-005A	GW METAL CONT-12HR-0608	6/8/2015 8:00:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/12/2015
1506915-005A	GW METAL CONT-12HR-0608	6/8/2015 8:00:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/15/2015
1506915-006A	GW PEST CONT-12HR-06081	6/8/2015 7:25:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506915-006A	GW PEST CONT-12HR-06081	6/8/2015 7:25:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-007A	SW PEST CONT-12HR-06081	6/8/2015 8:48:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506915-007A	SW PEST CONT-12HR-06081	6/8/2015 8:48:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-008A	SW METAL CONT-12HR-0608	6/8/2015 9:35:00AM	Surface Water	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506915-009A	GW METAL TEST-12HR-0608	6/8/2015 8:05:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/12/2015
1506915-009A	GW METAL TEST-12HR-0608	6/8/2015 8:05:00AM	Groundwater	Total Metals by ICP/MS		6/10/2015 5:20:00 PM	06/15/2015
1506915-010A	GW PEST TEST-12HR-06081	6/8/2015 7:28:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/12/2015
1506915-010A	GW PEST TEST-12HR-06081	6/8/2015 7:28:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-011A	SW PEST TEST-12HR-06081	6/8/2015 8:45:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00 PM	06/13/2015
1506915-012A	SW METAL TEST-12HR-0608	6/8/2015 9:30:00AM	Surface Water	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506915-012A	SW METAL TEST-12HR-0608	6/8/2015 9:30:00AM	Surface Water	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/12/2015
1506915-013A	FILTER BLANK-060715	6/7/2015 8:15:00PM	Aqueous	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/10/2015
1506915-013A	FILTER BLANK-060715	6/7/2015 8:15:00PM	Aqueous	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/11/2015
1506915-013A	FILTER BLANK-060715	6/7/2015 8:15:00PM	Aqueous	Dissolved Metals by ICP/MS		6/9/2015 1:39:02 PM	06/12/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL Atlanta
Workorder: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **MB-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08970	0.00500	100.0		89.7	80	120				
Copper	0.08854	0.00200	100.0		88.5	80	120				
Lead	0.09564	0.00100	100.0		95.6	80	120				
Zinc	0.08604	0.0100	100.0		86.0	80	120				

Sample ID: **1506400-002CMS** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09329	0.00500	100.0	0.3764	92.9	75	125				
Copper	0.1088	0.00200	100.0	48.08	60.7	75	125				S
Lead	0.08800	0.00100	100.0		88.0	75	125				
Zinc	5.265	0.0100	100.0	5053	212	75	125				S

Sample ID: **1506400-002CMSD** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09273	0.00500	100.0	0.3764	92.4	75	125	93.29	0.606	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: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **1506400-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1074	0.00200	100.0	48.08	59.3	75	125	108.8	1.29	20	S
Lead	0.08512	0.00100	100.0		85.1	75	125	88.00	3.32	20	
Zinc	5.245	0.0100	100.0	5053	191	75	125	5265	0.385	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: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **MB-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259223**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000431	0	0.5000		86.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.000274	0	0.5000		54.8	14.4	116				

Sample ID: **LCS-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259224**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.001325	0.00010	1.000		133	52.5	140				
Dieldrin	0.001043	0.00010	1.000		104	59.5	137				
gamma-BHC	0.001013	0.000050	1.000		101	46	134				
Heptachlor	0.001010	0.000050	1.000		101	44.7	127				
Surr: Decachlorobiphenyl	0.000483	0	0.5000		96.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000421	0	0.5000		84.1	14.4	116				

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: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **1506918-001DMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259060**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000758	0.00010	1.000		75.8	27.1	146				
Dieldrin	0.000819	0.00010	1.000	0.07566	74.4	39.4	142				
Heptachlor	0.000860	0.000050	1.000		86.0	33	138				
Surr: Decachlorobiphenyl	0.000281	0	0.5000		56.2	14.6	130				
Surr: Tetrachloro-m-xylene	0.000271	0	0.5000		54.2	14.4	116				

Sample ID: **1506918-001DMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293802**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	0.002958	0.00050	1.000	1.746	121	34.5	144				

Sample ID: **1506918-001DMSD** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293702**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259061**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000764	0.00010	1.000		76.4	27.1	146	0.7581	0.824	21.2	
Dieldrin	0.000828	0.00010	1.000	0.07566	75.2	39.4	142	0.8194	1.05	20	
Heptachlor	0.000902	0.000050	1.000		90.2	33	138	0.8598	4.84	26.9	
Surr: Decachlorobiphenyl	0.000243	0	0.5000		48.6	14.6	130	0.2810	0	0	
Surr: Tetrachloro-m-xylene	0.000318	0	0.5000		63.5	14.4	116	0.2711	0	0	

Sample ID: **1506918-001DMSD** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293802**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/12/2015** Seq No: **6259592**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
gamma-BHC	0.002685	0.00050	1.000	1.746	93.9	34.5	144	3.046	12.6	23.1	

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: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208628

Sample ID: **MB-208628** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260142**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.000516	0.00500									J
Copper	0.001018	0.00200									J
Lead	BRL	0.00100									
Zinc	0.04362	0.0100									B

Sample ID: **LCS-208628** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260143**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1194	0.00500	100.0	0.5160	119	80	120				
Copper	0.1202	0.00200	100.0	1.018	119	80	120				
Lead	0.1174	0.00100	100.0		117	80	120				
Zinc	0.1331	0.0100	100.0	43.62	89.5	80	120				B

Sample ID: **1506918-003BMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293822**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/12/2015** Seq No: **6260145**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08769	0.00500	100.0	2.272	85.4	75	125				
Lead	0.1134	0.00100	100.0	0.8930	113	75	125				

Sample ID: **1506918-003BMS** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293931**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208628** Analysis Date: **06/15/2015** Seq No: **6262591**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	12.91	0.0200	100.0	14240	-1330	75	125				S
Zinc	15.19	0.100	100.0	16780	-1590	75	125				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: 1506915

ANALYTICAL QC SUMMARY REPORT

BatchID: 208628

Sample ID: **1506918-003BMSD**	Client ID:			Units: **mg/L**	Prep Date: **06/10/2015**	Run No: **293822**
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**			BatchID: **208628**	Analysis Date: **06/12/2015**	Seq No: **6260146**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08793	0.00500	100.0	2.272	85.7	75	125	87.69	0.273	20	
Lead	0.1166	0.00100	100.0	0.8930	116	75	125	113.4	2.78	20	

Sample ID: **1506918-003BMSD**	Client ID:			Units: **mg/L**	Prep Date: **06/10/2015**	Run No: **293931**
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**			BatchID: **208628**	Analysis Date: **06/15/2015**	Seq No: **6262593**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	14.89	0.0200	100.0	14240	655	75	125	12910	14.2	20	S
Zinc	17.60	0.100	100.0	16780	819	75	125	15190	14.7	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 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: 1506A60

Analytical Environmental Services, Inc. received 8 samples on 6/9/2015 3:14:00 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 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1506460

Date: 6-8-15 Page 1 of 1

COMPANY: AMEC Foster Wheeler
ADDRESS: 1105 Big Shanty Rd Suite 100 Kennesaw, GA 30144
PHONE: 770-421-3400
FAX: 770-421-3886
SAMPLED BY: Tanya Kinnard
SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Metals (Total)	Pesticides	Metals (dissolved)	REMARKS	No. # of Containers
1	GW PEST CONT 24HR-060815	6-8-15	19:45	✓				1			1
2	GW METALS CONT 24HR-060815	6-8-15	19:55	✓			1				1
3	GW PEST TEST 24HR-060815	6-8-15	19:50	✓				1			1
4	GW Metals TEST 24HR-060815	6-8-15	20:00	✓			1				1
5	SW PEST CONT 24HR-060815	6-8-15	20:05	✓				1			1
6	SW METALS CONT 24HR-060815	6-8-15	20:45	✓					1	Filter upon Rcpt	1
7	SW PEST TEST 24HR-060815	6-8-15	20:10	✓				1			1
8	SW METALS TEST 24HR-060815	6-8-15	20:20	✓					1	Filter upon Rcpt	1
9											
10											
11											
12											
13											
14											

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

ANALYSIS REQUESTED / PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6-9-15 17:05	1:	6-9-15 2:05pm
2:	6-9-15 3:14	2: Jason B	6/9/15 15:14
3:		3:	

PROJECT INFORMATION
PROJECT NAME: BFEL-ATLANTA
PROJECT #: 6122-08-0154.18
SITE ADDRESS:
SEND REPORT TO: Rhonda Quinn Terrell Baker Tanya Kinnard
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: K7422 PO#:

RECEIPT
Total # of Containers: 8

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

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

SPECIAL INSTRUCTIONS/COMMENTS:
METALS List: As, Cu, Pb, Zn
Pesticides: Project List
Report methods & MDL

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT 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

Cooler # = 3.2°C

White Copy - Original; Yellow Copy - Client

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST CONT 24HR-060815
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 7:45:00 PM
Lab ID:	1506A60-001	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	0.00088		0.0000082	0.00010	mg/L	208575	1	06/13/2015 02:43	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 02:43	SH
4,4´-DDT	0.00073		0.0000063	0.00010	mg/L	208575	1	06/13/2015 02:43	SH
alpha-BHC	0.14		0.0038	0.025	mg/L	208575	500	06/13/2015 12:24	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 02:43	SH
beta-BHC	0.022		0.00038	0.0050	mg/L	208575	100	06/12/2015 23:02	SH
delta-BHC	0.40		0.0018	0.025	mg/L	208575	500	06/13/2015 12:24	SH
Dieldrin	0.0010		0.0000072	0.00010	mg/L	208575	1	06/13/2015 02:43	SH
gamma-BHC	0.30		0.0032	0.025	mg/L	208575	500	06/13/2015 12:24	SH
gamma-Chlordane	0.00025		0.0000047	0.000050	mg/L	208575	1	06/13/2015 02:43	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 02:43	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 02:43	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 02:43	SH
Surr: Decachlorobiphenyl	75.3		0	14.6-130	%REC	208575	1	06/13/2015 02:43	SH
Surr: Tetrachloro-m-xylene	120	S	0	14.4-116	%REC	208575	1	06/13/2015 02:43	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METALS CONT 24HR-0608
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 7:55:00 PM
Lab ID:	1506A60-002	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.0548		0.00167	0.0500	mg/L	208665	10	06/16/2015 18:24	JS
Copper	35.1		0.00204	0.0200	mg/L	208665	10	06/16/2015 18:24	JS
Lead	0.418		0.00155	0.00500	mg/L	208665	5	06/15/2015 20:07	JS
Zinc	88.3		0.0344	0.100	mg/L	208665	10	06/16/2015 18:24	JS

Qualifiers:

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

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST TEST 24HR-060815
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 7:50:00 PM
Lab ID:	1506A60-003	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	0.000049	J	0.0000082	0.00010	mg/L	208575	1	06/13/2015 03:02	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 03:02	SH
4,4´-DDT	0.00073		0.0000063	0.00010	mg/L	208575	1	06/13/2015 03:02	SH
alpha-BHC	0.12		0.00075	0.0050	mg/L	208575	100	06/12/2015 23:21	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 03:02	SH
beta-BHC	0.015		0.00038	0.0050	mg/L	208575	100	06/12/2015 23:21	SH
delta-BHC	0.23		0.0018	0.025	mg/L	208575	500	06/13/2015 12:43	SH
Dieldrin	0.00019		0.0000072	0.00010	mg/L	208575	1	06/13/2015 03:02	SH
gamma-BHC	0.21		0.0032	0.025	mg/L	208575	500	06/13/2015 12:43	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 03:02	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 03:02	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 03:02	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 03:02	SH
Surr: Decachlorobiphenyl	48.6		0	14.6-130	%REC	208575	1	06/13/2015 03:02	SH
Surr: Tetrachloro-m-xylene	87.1		0	14.4-116	%REC	208575	1	06/13/2015 03:02	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METALS TEST 24HR-0608
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 8:00:00 PM
Lab ID:	1506A60-004	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A				**(SW3005A)**					
Arsenic	0.0225		0.000167	0.00500	mg/L	208665	1	06/12/2015 22:21	JS
Copper	11.7		0.00102	0.0100	mg/L	208665	5	06/15/2015 20:12	JS
Lead	0.0415		0.000309	0.00100	mg/L	208665	1	06/12/2015 22:21	JS
Zinc	74.7		0.0344	0.100	mg/L	208665	10	06/16/2015 18:30	JS

Qualifiers:

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

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST CONT 24HR-060815
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 8:05:00 PM
Lab ID:	1506A60-005	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 03:20	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 03:20	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 03:20	SH
alpha-BHC	0.00024		0.0000075	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
beta-BHC	0.0023		0.000038	0.00050	mg/L	208575	10	06/12/2015 23:39	SH
delta-BHC	0.00026		0.0000035	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
Dieldrin	0.000035	J	0.0000072	0.00010	mg/L	208575	1	06/13/2015 03:20	SH
gamma-BHC	0.00015		0.0000063	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 03:20	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 03:20	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 03:20	SH
Surr: Decachlorobiphenyl	71.8		0	14.6-130	%REC	208575	1	06/13/2015 03:20	SH
Surr: Tetrachloro-m-xylene	88.1		0	14.4-116	%REC	208575	1	06/13/2015 03:20	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METALS CONT 24HR-0608
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 8:45:00 PM
Lab ID:	1506A60-006	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.000495	J	0.000167	0.00500	mg/L	208554	1	06/11/2015 22:43	JS
Copper	0.221		0.000204	0.00200	mg/L	208554	1	06/11/2015 22:43	JS
Lead	BRL		0.000309	0.00100	mg/L	208554	1	06/11/2015 22:43	JS
Zinc	7.94		0.00344	0.0100	mg/L	208554	1	06/11/2015 22:43	JS

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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST TEST 24HR-060815
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 8:10:00 PM
Lab ID:	1506A60-007	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208575	1	06/13/2015 03:39	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208575	1	06/13/2015 03:39	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208575	1	06/13/2015 03:39	SH
alpha-BHC	0.000058		0.0000075	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
beta-BHC	0.00030		0.0000038	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
delta-BHC	0.000046	J	0.0000035	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
Dieldrin	BRL		0.0000072	0.00010	mg/L	208575	1	06/13/2015 03:39	SH
gamma-BHC	0.000040	J	0.0000063	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208575	1	06/13/2015 03:39	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208575	1	06/13/2015 03:39	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208575	1	06/13/2015 03:39	SH
Surr: Decachlorobiphenyl	49.4		0	14.6-130	%REC	208575	1	06/13/2015 03:39	SH
Surr: Tetrachloro-m-xylene	61.3		0	14.4-116	%REC	208575	1	06/13/2015 03:39	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:** 19-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METALS TEST 24HR-06081
Project Name:	BFEL-Atlanta	**Collection Date:**	6/8/2015 8:20:00 PM
Lab ID:	1506A60-008	**Matrix:**	Aqueous

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.00177	J	0.000167	0.00500	mg/L	208554	1	06/11/2015 23:09	JS
Copper	0.0146		0.000204	0.00200	mg/L	208554	1	06/12/2015 12:43	JS
Lead	BRL		0.000309	0.00100	mg/L	208554	1	06/11/2015 23:09	JS
Zinc	1.18		0.00344	0.0100	mg/L	208554	1	06/11/2015 23:09	JS

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.

Sample/Cooler Receipt Checklist

Client Amec Work Order Number 1506460

Checklist completed by Signature 6/9/15 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 _____ 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 JB

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: 17-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506A60

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506A60-001A	GW PEST CONT 24HR-06081	6/8/2015 7:45:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/12/2015
1506A60-001A	GW PEST CONT 24HR-06081	6/8/2015 7:45:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/13/2015
1506A60-002A	GW METALS CONT 24HR-06(	6/8/2015 7:55:00PM	Aqueous	Total Metals by ICP/MS		6/11/2015 1:45:00PM	06/15/2015
1506A60-002A	GW METALS CONT 24HR-06(	6/8/2015 7:55:00PM	Aqueous	Total Metals by ICP/MS		6/11/2015 1:45:00PM	06/16/2015
1506A60-003A	GW PEST TEST 24HR-06081	6/8/2015 7:50:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/12/2015
1506A60-003A	GW PEST TEST 24HR-06081	6/8/2015 7:50:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/13/2015
1506A60-004A	GW METALS TEST 24HR-060	6/8/2015 8:00:00PM	Aqueous	Total Metals by ICP/MS		6/11/2015 1:45:00PM	06/12/2015
1506A60-004A	GW METALS TEST 24HR-060	6/8/2015 8:00:00PM	Aqueous	Total Metals by ICP/MS		6/11/2015 1:45:00PM	06/15/2015
1506A60-004A	GW METALS TEST 24HR-060	6/8/2015 8:00:00PM	Aqueous	Total Metals by ICP/MS		6/11/2015 1:45:00PM	06/16/2015
1506A60-005A	SW PEST CONT 24HR-06081	6/8/2015 8:05:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/12/2015
1506A60-005A	SW PEST CONT 24HR-06081	6/8/2015 8:05:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/13/2015
1506A60-006A	SW METALS CONT 24HR-06(	6/8/2015 8:45:00PM	Aqueous	Dissolved Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506A60-007A	SW PEST TEST 24HR-06081	6/8/2015 8:10:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		6/10/2015 12:00:00PM	06/13/2015
1506A60-008A	SW METALS TEST 24HR-060	6/8/2015 8:20:00PM	Aqueous	Dissolved Metals by ICP/MS		6/10/2015 10:00:00AM	06/11/2015
1506A60-008A	SW METALS TEST 24HR-060	6/8/2015 8:20:00PM	Aqueous	Dissolved Metals by ICP/MS		6/10/2015 10:00:00AM	06/12/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **MB-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253596**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208554** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253595**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.08970	0.00500	100.0		89.7	80	120				
Copper	0.08854	0.00200	100.0		88.5	80	120				
Lead	0.09564	0.00100	100.0		95.6	80	120				
Zinc	0.08604	0.0100	100.0		86.0	80	120				

Sample ID: **1506400-002CMS** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253598**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09329	0.00500	100.0	0.3764	92.9	75	125				
Copper	0.1088	0.00200	100.0	48.08	60.7	75	125				S
Lead	0.08800	0.00100	100.0		88.0	75	125				
Zinc	5.265	0.0100	100.0	5053	212	75	125				S

Sample ID: **1506400-002CMSD** Client ID: Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09273	0.00500	100.0	0.3764	92.4	75	125	93.29	0.606	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: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208554

Sample ID: **1506400-002CMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/09/2015** Run No: **293542**
BatchID: **208554** Analysis Date: **06/09/2015** Seq No: **6253599**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1074	0.00200	100.0	48.08	59.3	75	125	108.8	1.29	20	S
Lead	0.08512	0.00100	100.0		85.1	75	125	88.00	3.32	20	
Zinc	5.245	0.0100	100.0	5053	191	75	125	5265	0.385	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: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **MB-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259223**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	BRL	0.000050									
Dieldrin	BRL	0.00010									
gamma-BHC	BRL	0.000050									
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000431	0	0.5000		86.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.000274	0	0.5000		54.8	14.4	116				

Sample ID: **LCS-208575** Client ID: Units: **mg/L** Prep Date: **06/10/2015** Run No: **293782**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208575** Analysis Date: **06/11/2015** Seq No: **6259224**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.001325	0.00010	1.000		133	52.5	140				
Dieldrin	0.001043	0.00010	1.000		104	59.5	137				
gamma-BHC	0.001013	0.000050	1.000		101	46	134				
Heptachlor	0.001010	0.000050	1.000		101	44.7	127				
Surr: Decachlorobiphenyl	0.000483	0	0.5000		96.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000421	0	0.5000		84.1	14.4	116				

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: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208575

Sample ID: **1506918-001DMS**	Client ID:				Units: **mg/L**		Prep Date: **06/10/2015**		Run No: **293702**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **208575**		Analysis Date: **06/11/2015**		Seq No: **6259060**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
4,4´-DDT	0.000758	0.00010	1.000		75.8	27.1	146			
Dieldrin	0.000819	0.00010	1.000	0.07566	74.4	39.4	142			
Heptachlor	0.000860	0.000050	1.000		86.0	33	138			
Surr: Decachlorobiphenyl	0.000281	0	0.5000		56.2	14.6	130			
Surr: Tetrachloro-m-xylene	0.000271	0	0.5000		54.2	14.4	116			

Sample ID: **1506918-001DMS**	Client ID:				Units: **mg/L**		Prep Date: **06/10/2015**		Run No: **293802**	
SampleType: **MS**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **208575**		Analysis Date: **06/12/2015**		Seq No: **6259591**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
gamma-BHC	0.002958	0.00050	1.000	1.746	121	34.5	144			

Sample ID: **1506918-001DMSD**	Client ID:				Units: **mg/L**		Prep Date: **06/10/2015**		Run No: **293702**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **208575**		Analysis Date: **06/11/2015**		Seq No: **6259061**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
4,4´-DDT	0.000764	0.00010	1.000		76.4	27.1	146	0.7581	0.824	21.2
Dieldrin	0.000828	0.00010	1.000	0.07566	75.2	39.4	142	0.8194	1.05	20
Heptachlor	0.000902	0.000050	1.000		90.2	33	138	0.8598	4.84	26.9
Surr: Decachlorobiphenyl	0.000243	0	0.5000		48.6	14.6	130	0.2810	0	0
Surr: Tetrachloro-m-xylene	0.000318	0	0.5000		63.5	14.4	116	0.2711	0	0

Sample ID: **1506918-001DMSD**	Client ID:				Units: **mg/L**		Prep Date: **06/10/2015**		Run No: **293802**	
SampleType: **MSD**	TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**				BatchID: **208575**		Analysis Date: **06/12/2015**		Seq No: **6259592**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
gamma-BHC	0.002685	0.00050	1.000	1.746	93.9	34.5	144	3.046	12.6	23.1

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: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208665

Sample ID: **MB-208665**	Client ID:			Units: **mg/L**	Prep Date: **06/11/2015**	Run No: **293887**
SampleType: **MBLK**	TestCode: **Total Metals by ICP/MS** **SW6020A**			BatchID: **208665**	Analysis Date: **06/12/2015**	Seq No: **6261508**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	0.000455	0.00100									J
Zinc	BRL	0.0100									

Sample ID: **LCS-208665**	Client ID:			Units: **mg/L**	Prep Date: **06/11/2015**	Run No: **293887**
SampleType: **LCS**	TestCode: **Total Metals by ICP/MS** **SW6020A**			BatchID: **208665**	Analysis Date: **06/12/2015**	Seq No: **6261507**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1001	0.00500	100.0		100	80	120				
Copper	0.1115	0.00200	100.0		111	80	120				
Lead	0.1071	0.00100	100.0	0.4550	107	80	120				
Zinc	0.1038	0.0100	100.0		104	80	120				

Sample ID: **1506923-002CMS**	Client ID:			Units: **mg/L**	Prep Date: **06/11/2015**	Run No: **293887**
SampleType: **MS**	TestCode: **Total Metals by ICP/MS** **SW6020A**			BatchID: **208665**	Analysis Date: **06/12/2015**	Seq No: **6261513**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09741	0.00500	100.0	2.237	95.2	75	125				
Lead	0.09090	0.00100	100.0	2.023	88.9	75	125				
Zinc	0.09091	0.0100	100.0	6.336	84.6	75	125				

Sample ID: **1506923-002CMS**	Client ID:			Units: **mg/L**	Prep Date: **06/11/2015**	Run No: **293887**
SampleType: **MS**	TestCode: **Total Metals by ICP/MS** **SW6020A**			BatchID: **208665**	Analysis Date: **06/15/2015**	Seq No: **6263592**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1013	0.00400	100.0	7.135	94.2	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: 1506A60

ANALYTICAL QC SUMMARY REPORT

BatchID: 208665

Sample ID: **1506923-002CMSD**	Client ID:				Units: **mg/L**		Prep Date: **06/11/2015**		Run No: **293887**
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**				BatchID: **208665**		Analysis Date: **06/12/2015**		Seq No: **6261514**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09678	0.00500	100.0	2.237	94.5	75	125	97.41	0.652	20	
Lead	0.08778	0.00100	100.0	2.023	85.8	75	125	90.90	3.49	20	
Zinc	0.08862	0.0100	100.0	6.336	82.3	75	125	90.91	2.56	20	

Sample ID: **1506923-002CMSD**	Client ID:				Units: **mg/L**		Prep Date: **06/11/2015**		Run No: **293887**
SampleType: **MSD**	TestCode: **Total Metals by ICP/MS SW6020A**				BatchID: **208665**		Analysis Date: **06/15/2015**		Seq No: **6263593**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.09570	0.00400	100.0	7.135	88.6	75	125	101.3	5.70	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 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: 1506F08

Analytical Environmental Services, Inc. received 8 samples on 6/12/2015 5:45:00 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 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

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

CHAIN OF CUSTODY

Work Order: 1506F08

Date: 6-11-15 Page 1 of 1

COMPANY: AMEC Foster Wheeler

ADDRESS: 1075 Big Shanty Rd Suite 100 Kennesaw GA 30144

PHONE: 770-421-3400

FAX: 770-421-3486

SAMPLED BY: Tanya Kinnard

SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	Metals (total)	Pesticides	Metals (dissolved)	PRESERVATION (See codes)	REMARKS	No # of Containers
1	GW Pest Cont 96HR-061115	6-11-15	19:50	X				1				1
2	GW Pest Test 96HR-061115		19:55	X				1				1
3	GW Metals Cont 96HR-061115		20:00	X			1					1
4	GW Metals Test 96HR-061115		20:05	X			1					1
5	SW Pest Cont 96HR-061115		20:10	X				1				1
6	SW Pest Test 96HR-061115		20:15	X				1				1
7	SW Metals Cont 96HR-061115		20:20	X					1		filter upon receiving	1
8	SW Metals Test 96HR-061115		20:25	X					1		filter upon Receipt	1
9												
10												
11												
12												
13												
14												

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

ANALYSIS REQUESTED

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	6-12-15	1:	06/12/2015 14:45
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL Atlanta

PROJECT #: 6122050154.18

SITE ADDRESS: ATL GA

SEND REPORT TO: Rhonda Quinn, Tetrell

INVOICE TO: +Tanya Kinnard Parker (IF DIFFERENT FROM ABOVE)

QUOTE #: K7422 PO#:

RECEIPT

Total # of Containers: 8

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

STATE PROGRAM (if any): GA

E-mail? (Y) N; Fax? Y (N)

DATA PACKAGE: I (II) III IV

SPECIAL INSTRUCTIONS/COMMENTS:
Metals List: As, Cu, Pb, Zn
Pesticides: Project List
Report metals to MDL

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: 23-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project: BFEL-Atlanta
Lab ID: 1506F08

Case Narrative

Pesticide Analysis by Method 8081B:

Due to sample matrix, sample 1506F08-001A required dilution during analysis resulting in elevated reporting limits.

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

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST CONT 96 HR - 06111
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 7:50:00 PM
Lab ID:	1506F08-001	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B					**(SW3510C)**				
4,4´-DDD	0.00086		0.0000082	0.00010	mg/L	208968	1	06/18/2015 23:19	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208968	1	06/18/2015 23:19	SH
4,4´-DDT	0.00070		0.0000063	0.00010	mg/L	208968	1	06/18/2015 23:19	SH
alpha-BHC	0.17		0.0038	0.025	mg/L	208968	500	06/20/2015 12:04	RS
alpha-Chlordane	0.000077		0.000014	0.000050	mg/L	208968	1	06/18/2015 23:19	SH
beta-BHC	0.020		0.000076	0.0010	mg/L	208968	20	06/19/2015 14:34	SH
delta-BHC	0.48		0.0018	0.025	mg/L	208968	500	06/20/2015 12:04	RS
Dieldrin	0.0010		0.0000072	0.00010	mg/L	208968	1	06/18/2015 23:19	SH
gamma-BHC	0.36		0.0032	0.025	mg/L	208968	500	06/20/2015 12:04	RS
gamma-Chlordane	BRL		0.000094	0.0010	mg/L	208968	20	06/19/2015 14:34	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208968	1	06/18/2015 23:19	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208968	1	06/18/2015 23:19	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208968	1	06/18/2015 23:19	SH
Surr: Decachlorobiphenyl	75.1		0	14.6-130	%REC	208968	1	06/18/2015 23:19	SH
Surr: Tetrachloro-m-xylene	118	S	0	14.4-116	%REC	208968	1	06/18/2015 23:19	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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW PEST TEST 96 HR - 061115
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 7:55:00 PM
Lab ID:	1506F08-002	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208968	1	06/18/2015 23:37	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208968	1	06/18/2015 23:37	SH
4,4´-DDT	0.00021		0.0000063	0.00010	mg/L	208968	1	06/18/2015 23:37	SH
alpha-BHC	0.094		0.0038	0.025	mg/L	208968	500	06/20/2015 12:23	RS
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208968	1	06/18/2015 23:37	SH
beta-BHC	0.0096		0.000076	0.0010	mg/L	208968	20	06/19/2015 15:11	SH
delta-BHC	0.19		0.0018	0.025	mg/L	208968	500	06/20/2015 12:23	RS
Dieldrin	0.00012		0.0000072	0.00010	mg/L	208968	1	06/18/2015 23:37	SH
gamma-BHC	0.19		0.0032	0.025	mg/L	208968	500	06/20/2015 12:23	RS
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208968	1	06/18/2015 23:37	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208968	1	06/18/2015 23:37	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208968	1	06/18/2015 23:37	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208968	1	06/18/2015 23:37	SH
Surr: Decachlorobiphenyl	79.7		0	14.6-130	%REC	208968	1	06/18/2015 23:37	SH
Surr: Tetrachloro-m-xylene	78		0	14.4-116	%REC	208968	1	06/18/2015 23:37	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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METALS CONT 96 HR- 06
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:00:00 PM
Lab ID:	1506F08-003	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.0680		0.000167	0.00500	mg/L	208877	1	06/18/2015 23:21	JS
Copper	44.9		0.00204	0.0200	mg/L	208877	10	06/19/2015 17:58	JS
Lead	0.326		0.000309	0.00100	mg/L	208877	1	06/18/2015 23:21	JS
Zinc	117		0.0688	0.200	mg/L	208877	20	06/19/2015 18:08	JS

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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	GW METALS TEST 96 HR - 061
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:05:00 PM
Lab ID:	1506F08-004	**Matrix:**	Groundwater

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020A					**(SW3005A)**				
Arsenic	0.0242		0.000167	0.00500	mg/L	208877	1	06/18/2015 23:27	JS
Copper	7.84		0.000204	0.00200	mg/L	208877	1	06/18/2015 23:27	JS
Lead	0.0506		0.000309	0.00100	mg/L	208877	1	06/18/2015 23:27	JS
Zinc	68.5		0.0344	0.100	mg/L	208877	10	06/19/2015 18:03	JS

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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST CONT 96 HR - 061115
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:10:00 PM
Lab ID:	1506F08-005	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208968	1	06/18/2015 23:56	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208968	1	06/18/2015 23:56	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208968	1	06/18/2015 23:56	SH
alpha-BHC	0.00027		0.0000075	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
beta-BHC	0.0023		0.0000076	0.00010	mg/L	208968	2	06/19/2015 15:30	SH
delta-BHC	0.00029		0.0000035	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
Dieldrin	0.000034	J	0.0000072	0.00010	mg/L	208968	1	06/18/2015 23:56	SH
gamma-BHC	0.00016		0.0000063	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208968	1	06/18/2015 23:56	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208968	1	06/18/2015 23:56	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208968	1	06/18/2015 23:56	SH
Surr: Decachlorobiphenyl	81.8		0	14.6-130	%REC	208968	1	06/18/2015 23:56	SH
Surr: Tetrachloro-m-xylene	98.4		0	14.4-116	%REC	208968	1	06/18/2015 23:56	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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW PEST TEST 96 HR - 061115
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:15:00 PM
Lab ID:	1506F08-006	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**					
4,4´-DDD	BRL		0.0000082	0.00010	mg/L	208968	1	06/19/2015 00:14	SH
4,4´-DDE	BRL		0.0000069	0.00010	mg/L	208968	1	06/19/2015 00:14	SH
4,4´-DDT	BRL		0.0000063	0.00010	mg/L	208968	1	06/19/2015 00:14	SH
alpha-BHC	0.000033	J	0.0000075	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
alpha-Chlordane	BRL		0.000014	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
beta-BHC	0.00015		0.0000038	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
delta-BHC	0.000030	J	0.0000035	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
Dieldrin	BRL		0.0000072	0.00010	mg/L	208968	1	06/19/2015 00:14	SH
gamma-BHC	0.000026	J	0.0000063	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
gamma-Chlordane	BRL		0.0000047	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
Heptachlor	BRL		0.0000079	0.000050	mg/L	208968	1	06/19/2015 00:14	SH
Methoxychlor	BRL		0.000056	0.00050	mg/L	208968	1	06/19/2015 00:14	SH
Toxaphene	BRL		0.00018	0.0050	mg/L	208968	1	06/19/2015 00:14	SH
Surr: Decachlorobiphenyl	73.9		0	14.6-130	%REC	208968	1	06/19/2015 00:14	SH
Surr: Tetrachloro-m-xylene	66.9		0	14.4-116	%REC	208968	1	06/19/2015 00:14	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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METALS CONT 96 HR - 06
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:20:00 PM
Lab ID:	1506F08-007	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.000306	J	0.000167	0.00500	mg/L	208827	1	06/15/2015 23:28	JS
Copper	0.216		0.000204	0.00200	mg/L	208827	1	06/15/2015 23:28	JS
Lead	BRL		0.000309	0.00100	mg/L	208827	1	06/15/2015 23:28	JS
Zinc	7.20		0.00344	0.0100	mg/L	208827	1	06/15/2015 23:28	JS

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:** 23-Jun-15

Client:	AMEC E&I, Inc. -Kennesaw	**Client Sample ID:**	SW METALS TEST 96 HR - 061
Project Name:	BFEL-Atlanta	**Collection Date:**	6/11/2015 8:25:00 PM
Lab ID:	1506F08-008	**Matrix:**	Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Dissolved Metals by ICP/MS SW6020A (SW3005A)									
Arsenic	0.00191	J	0.000167	0.00500	mg/L	208827	1	06/15/2015 23:33	JS
Copper	0.00848		0.000204	0.00200	mg/L	208827	1	06/15/2015 23:33	JS
Lead	BRL		0.000309	0.00100	mg/L	208827	1	06/15/2015 23:33	JS
Zinc	0.545		0.00344	0.0100	mg/L	208827	1	06/15/2015 23:33	JS

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.

Sample/Cooler Receipt Checklist

Client AMEC/KENWESAW Work Order Number 1506F08

Checklist completed by Nirmal Kumar 06/18/2015
Signature Date

Carrier name: FedEx __ UPS __ Courier __ Client ✓ US Mail __ Other _____

Shipping container/cooler in good condition? Yes ✓ No __ Not Present __

Custody seals intact on shipping container/cooler? Yes __ No __ Not Present ✓

Custody seals intact on sample bottles? Yes __ No __ Not Present ✓

Container/Temp Blank temperature in compliance? (0°≤6°C)* Yes ✓ No __

Cooler #1 3.1°C Cooler #2 _____ 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 MIRIAM

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: 23-Jun-15

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Lab Order: 1506F08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506F08-001A	GW PEST CONT 96 HR - 0611	6/11/2015 7:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/18/2015
1506F08-001A	GW PEST CONT 96 HR - 0611	6/11/2015 7:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F08-001A	GW PEST CONT 96 HR - 0611	6/11/2015 7:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/20/2015
1506F08-002A	GW PEST TEST 96 HR - 0611	6/11/2015 7:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/18/2015
1506F08-002A	GW PEST TEST 96 HR - 0611	6/11/2015 7:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F08-002A	GW PEST TEST 96 HR - 0611	6/11/2015 7:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/20/2015
1506F08-003A	GW METALS CONT 96 HR- 06	6/11/2015 8:00:00PM	Groundwater	Total Metals by ICP/MS		6/16/2015 1:30:00 PM	06/18/2015
1506F08-003A	GW METALS CONT 96 HR- 06	6/11/2015 8:00:00PM	Groundwater	Total Metals by ICP/MS		6/16/2015 1:30:00 PM	06/19/2015
1506F08-004A	GW METALS TEST 96 HR - 06	6/11/2015 8:05:00PM	Groundwater	Total Metals by ICP/MS		6/16/2015 1:30:00 PM	06/18/2015
1506F08-004A	GW METALS TEST 96 HR - 06	6/11/2015 8:05:00PM	Groundwater	Total Metals by ICP/MS		6/16/2015 1:30:00 PM	06/19/2015
1506F08-005A	SW PEST CONT 96 HR - 0611	6/11/2015 8:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/18/2015
1506F08-005A	SW PEST CONT 96 HR - 0611	6/11/2015 8:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F08-006A	SW PEST TEST 96 HR - 0611	6/11/2015 8:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F08-007A	SW METALS CONT 96 HR - 0	6/11/2015 8:20:00PM	Surface Water	Dissolved Metals by ICP/MS		6/15/2015 1:30:00 PM	06/15/2015
1506F08-008A	SW METALS TEST 96 HR - 06	6/11/2015 8:25:00PM	Surface Water	Dissolved Metals by ICP/MS		6/15/2015 1:30:00 PM	06/15/2015

Client: AMEC E&I, Inc. -Kennesaw
Project Name: BFEL-Atlanta
Workorder: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208827

Sample ID: **MB-208827** Client ID: Units: **mg/L** Prep Date: **06/15/2015** Run No: **294034**
SampleType: **MBLK** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208827** Analysis Date: **06/15/2015** Seq No: **6264960**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	0.000326	0.00200									J
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208827** Client ID: Units: **mg/L** Prep Date: **06/15/2015** Run No: **294034**
SampleType: **LCS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208827** Analysis Date: **06/15/2015** Seq No: **6264959**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1024	0.00500	100.0		102	80	120				
Copper	0.09920	0.00200	100.0	0.3261	98.9	80	120				
Lead	0.09315	0.00100	100.0		93.1	80	120				
Zinc	0.1067	0.0100	100.0		107	80	120				

Sample ID: **1506C05-001EMS** Client ID: Units: **mg/L** Prep Date: **06/15/2015** Run No: **294034**
SampleType: **MS** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208827** Analysis Date: **06/15/2015** Seq No: **6264962**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1086	0.00500	100.0	0.2163	108	75	125				
Copper	0.1052	0.00200	100.0	0.8472	104	75	125				
Lead	0.09570	0.00100	100.0		95.7	75	125				
Zinc	0.1039	0.0100	100.0		104	75	125				

Sample ID: **1506C05-001EMSD** Client ID: Units: **mg/L** Prep Date: **06/15/2015** Run No: **294034**
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A** BatchID: **208827** Analysis Date: **06/15/2015** Seq No: **6264963**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1092	0.00500	100.0	0.2163	109	75	125	108.6	0.565	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: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208827

Sample ID: **1506C05-001EMSD** Client ID:
SampleType: **MSD** TestCode: **Dissolved Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/15/2015** Run No: **294034**
BatchID: **208827** Analysis Date: **06/15/2015** Seq No: **6264963**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1050	0.00200	100.0	0.8472	104	75	125	105.2	0.206	20	
Lead	0.09697	0.00100	100.0		97.0	75	125	95.70	1.32	20	
Zinc	0.1046	0.0100	100.0		105	75	125	103.9	0.593	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: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208877

Sample ID: **MB-208877** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294318**
SampleType: **MBLK** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208877** Analysis Date: **06/18/2015** Seq No: **6271484**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Copper	BRL	0.00200									
Lead	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **LCS-208877** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294318**
SampleType: **LCS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208877** Analysis Date: **06/18/2015** Seq No: **6271483**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09832	0.00500	100.0		98.3	80	120				
Copper	0.1040	0.00200	100.0		104	80	120				
Lead	0.1058	0.00100	100.0		106	80	120				
Zinc	0.1003	0.0100	100.0		100	80	120				

Sample ID: **1506E80-001BMS** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294318**
SampleType: **MS** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208877** Analysis Date: **06/18/2015** Seq No: **6271486**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09937	0.00500	100.0	0.3840	99.0	75	125				
Copper	0.1041	0.00200	100.0	1.563	103	75	125				
Lead	0.1005	0.00100	100.0	0.4299	100	75	125				
Zinc	0.1065	0.0100	100.0	8.367	98.1	75	125				

Sample ID: **1506E80-001BMSD** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294318**
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A** BatchID: **208877** Analysis Date: **06/18/2015** Seq No: **6271489**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09816	0.00500	100.0	0.3840	97.8	75	125	99.37	1.22	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: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208877

Sample ID: **1506E80-001BMSD** Client ID:
SampleType: **MSD** TestCode: **Total Metals by ICP/MS SW6020A**
Units: **mg/L** Prep Date: **06/16/2015** Run No: **294318**
BatchID: **208877** Analysis Date: **06/18/2015** Seq No: **6271489**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1050	0.00200	100.0	1.563	103	75	125	104.1	0.855	20	
Lead	0.1014	0.00100	100.0	0.4299	101	75	125	100.5	0.888	20	
Zinc	0.1059	0.0100	100.0	8.367	97.5	75	125	106.5	0.511	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: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208968

Sample ID: **MB-208968** Client ID: Units: **mg/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271850**

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	0.00010									
4,4´-DDE	BRL	0.00010									
4,4´-DDT	BRL	0.00010									
alpha-BHC	BRL	0.000050									
alpha-Chlordane	BRL	0.000050									
beta-BHC	BRL	0.000050									
delta-BHC	0.000011	0.000050									J
Dieldrin	0.000010	0.00010									J
gamma-BHC	0.000008	0.000050									J
gamma-Chlordane	BRL	0.000050									
Heptachlor	BRL	0.000050									
Methoxychlor	BRL	0.00050									
Toxaphene	BRL	0.0050									
Surr: Decachlorobiphenyl	0.000444	0	0.5000		88.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.000437	0	0.5000		87.4	14.4	116				

Sample ID: **LCS-208968** Client ID: Units: **mg/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271851**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.001014	0.00010	1.000		101	52.5	140				
Dieldrin	0.001009	0.00010	1.000	0.01042	99.9	59.5	137				
gamma-BHC	0.000930	0.000050	1.000	0.007730	92.3	46	134				
Heptachlor	0.000895	0.000050	1.000		89.5	44.7	127				
Surr: Decachlorobiphenyl	0.000433	0	0.5000		86.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.000419	0	0.5000		83.8	14.4	116				

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: 1506F08

ANALYTICAL QC SUMMARY REPORT

BatchID: 208968

Sample ID: **1506E34-001AMS** Client ID: Units: **mg/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271853**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000970	0.00010	1.000		97.0	27.1	146				
Dieldrin	0.001058	0.00010	1.000		106	39.4	142				
gamma-BHC	0.000977	0.000050	1.000		97.7	34.5	144				
Heptachlor	0.000952	0.000050	1.000		95.2	33	138				
Surr: Decachlorobiphenyl	0.000376	0	0.5000		75.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.000458	0	0.5000		91.7	14.4	116				

Sample ID: **1506E34-001AMSD** Client ID: Units: **mg/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.000986	0.00010	1.000		98.6	27.1	146	0.9702	1.63	21.2	
Dieldrin	0.001059	0.00010	1.000		106	39.4	142	1.058	0.092	20	
gamma-BHC	0.000936	0.000050	1.000		93.6	34.5	144	0.9772	4.27	23.1	
Heptachlor	0.000933	0.000050	1.000		93.3	33	138	0.9518	2.02	26.9	
Surr: Decachlorobiphenyl	0.000352	0	0.5000		70.3	14.6	130	0.3755	0	0	
Surr: Tetrachloro-m-xylene	0.000403	0	0.5000		80.7	14.4	116	0.4584	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 18, 2015

Larry Linsman
ORIN Technologies
405 Investment Ct
Verona WI 53593

TEL:
FAX:

RE: BFEL Atlanta

Dear Larry Linsman: Order No: 1506D74

Analytical Environmental Services, Inc. received 8 samples on 6/12/2015 7:40:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Dorothy deBruyn
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1506D74

Date: 6/10/15 Page 1 of 1

COMPANY: ORIN Technologies	ADDRESS: 405 Investment Ct. Verona, WI 53593
PHONE: 608-838-6699	FAX: 608-838-6695
SAMPLED BY: Larry Kinsman	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260 VOC	6010 metal Total	8081 Pest	6010 metal Dissolved	REMARKS	No # of Containers
	ANALYSIS REQUESTED / PRESERVATION (See codes)											
1	BAM GW VOC Control 12 HR	6/11/15	8:00Am		X		X					3
2	BAM GW VOC Treat 12 HR				X		X					3
3	BAM GW Metal Control 12HR - Total				X			X			total metals	1
4	BAM GW metal Test 12 HR - Total				X			X			total metals	1
5	BAM GW Pest Control 12 HR				X				X			1
6	BAM GW Pest Test 12 HR				X				X			1
7	BAM GW metal Control 12 HR - Dissolved									X	dissolved metals	1
8	BAM GW metal test 12 HR - Dissolved									X	dissolved metals	1
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: Keah Becker	6/11/15 430pm	1:	6/12/15 7:40
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: BFEL - Atlanta
PROJECT #: 61220801 54.18
SITE ADDRESS:
SEND REPORT TO: Larry Kinsman
INVOICE TO: ORIN (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

SPECIAL INSTRUCTIONS/COMMENTS:

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

RECEIPT
Total # of Containers: 12

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

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Client: ORIN Technologies
Project: BFEL Atlanta
Lab ID: 1506D74

Case Narrative

Sample Receiving Nonconformance:

Vial 3 of 3 for sample -002A was received with headspace present as signified by >1/4 inch bubble present. Laboratory proceed with analysis on remaining vials.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1506D74-001A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Pesticide Analysis by Method 8081:

Matrix spike duplicate analyses were not performed with Batch 208729 due to insufficient sample volume.

Due to sample matrix, sample 1506D74-005A required dilution during preparation and/or analysis resulting in elevated reporting limits.

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

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 12H
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,1,2-Trichloroethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,1-Dichloroethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,1-Dichloroethene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2,4-Trichlorobenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2-Dibromoethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2-Dichlorobenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2-Dichloroethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,2-Dichloropropane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,3-Dichlorobenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
1,4-Dichlorobenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
2-Butanone	92000	25000		ug/L	208713	500	06/13/2015 20:17	GK
2-Hexanone	650	500		ug/L	208713	50	06/12/2015 15:04	CH
4-Methyl-2-pentanone	32000	5000		ug/L	208713	500	06/13/2015 20:17	GK
Acetone	92000	25000		ug/L	208713	500	06/13/2015 20:17	GK
Benzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Bromodichloromethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Bromoform	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Bromomethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Carbon disulfide	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Carbon tetrachloride	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Chlorobenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Chloroethane	BRL	500		ug/L	208713	50	06/12/2015 15:04	CH
Chloroform	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Chloromethane	BRL	500		ug/L	208713	50	06/12/2015 15:04	CH
cis-1,2-Dichloroethene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
cis-1,3-Dichloropropene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Cyclohexane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Dibromochloromethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Dichlorodifluoromethane	BRL	500		ug/L	208713	50	06/12/2015 15:04	CH
Ethylbenzene	810	250		ug/L	208713	50	06/12/2015 15:04	CH
Freon-113	BRL	500		ug/L	208713	50	06/12/2015 15:04	CH
Isopropylbenzene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
m,p-Xylene	2900	250		ug/L	208713	50	06/12/2015 15:04	CH
Methyl acetate	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Methyl tert-butyl ether	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Methylcyclohexane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Methylene chloride	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
o-Xylene	970	250		ug/L	208713	50	06/12/2015 15:04	CH

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 12H
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Tetrachloroethene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Toluene	14000	2500		ug/L	208713	500	06/13/2015 20:17	GK
trans-1,2-Dichloroethene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
trans-1,3-Dichloropropene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Trichloroethene	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Trichlorofluoromethane	BRL	250		ug/L	208713	50	06/12/2015 15:04	CH
Vinyl chloride	BRL	100		ug/L	208713	50	06/12/2015 15:04	CH
Surr: 4-Bromofluorobenzene	92	70.6-123		%REC	208713	500	06/13/2015 20:17	GK
Surr: 4-Bromofluorobenzene	96	70.6-123		%REC	208713	50	06/12/2015 15:04	CH
Surr: Dibromofluoromethane	102	78.7-124		%REC	208713	50	06/12/2015 15:04	CH
Surr: Dibromofluoromethane	102	78.7-124		%REC	208713	500	06/13/2015 20:17	GK
Surr: Toluene-d8	105	81.3-120		%REC	208713	500	06/13/2015 20:17	GK
Surr: Toluene-d8	106	81.3-120		%REC	208713	50	06/12/2015 15:04	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in 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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TRAT 12HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2-Dichloroethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
2-Butanone	7400	5000		ug/L	208713	100	06/15/2015 10:53	CH
2-Hexanone	BRL	10		ug/L	208713	1	06/13/2015 20:40	GK
4-Methyl-2-pentanone	110	10		ug/L	208713	1	06/13/2015 20:40	GK
Acetone	44000	20000		ug/L	208713	1000	06/15/2015 10:29	CH
Benzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Bromodichloromethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Bromoform	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Bromomethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Carbon disulfide	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Carbon tetrachloride	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Chlorobenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Chloroethane	BRL	10		ug/L	208713	1	06/13/2015 20:40	GK
Chloroform	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Chloromethane	BRL	10		ug/L	208713	1	06/13/2015 20:40	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Cyclohexane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Dibromochloromethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Dichlorodifluoromethane	BRL	10		ug/L	208713	1	06/13/2015 20:40	GK
Ethylbenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Freon-113	BRL	10		ug/L	208713	1	06/13/2015 20:40	GK
Isopropylbenzene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
m,p-Xylene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Methyl acetate	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Methylcyclohexane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Methylene chloride	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
o-Xylene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TRAT 12HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Tetrachloroethene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Toluene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Trichloroethene	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208713	1	06/13/2015 20:40	GK
Vinyl chloride	BRL	2.0		ug/L	208713	1	06/13/2015 20:40	GK
Surr: 4-Bromofluorobenzene	86.2	70.6-123		%REC	208713	1	06/13/2015 20:40	GK
Surr: 4-Bromofluorobenzene	93.8	70.6-123		%REC	208713	100	06/15/2015 10:53	CH
Surr: 4-Bromofluorobenzene	96.2	70.6-123		%REC	208713	1000	06/15/2015 10:29	CH
Surr: Dibromofluoromethane	103	78.7-124		%REC	208713	1000	06/15/2015 10:29	CH
Surr: Dibromofluoromethane	106	78.7-124		%REC	208713	1	06/13/2015 20:40	GK
Surr: Dibromofluoromethane	107	78.7-124		%REC	208713	100	06/15/2015 10:53	CH
Surr: Toluene-d8	103	81.3-120		%REC	208713	1000	06/15/2015 10:29	CH
Surr: Toluene-d8	105	81.3-120		%REC	208713	1	06/13/2015 20:40	GK
Surr: Toluene-d8	104	81.3-120		%REC	208713	100	06/15/2015 10:53	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in 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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL CONTROL 1
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C (SW3010A)								
Arsenic	0.0601	0.0500		mg/L	208701	1	06/15/2015 12:37	IO
Copper	46.1	0.0100		mg/L	208701	1	06/15/2015 12:37	IO
Lead	0.271	0.0100		mg/L	208701	1	06/15/2015 12:37	IO
Zinc	117	0.0400		mg/L	208701	2	06/15/2015 15:12	IO

Qualifiers:

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

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

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL TEST 12HR-
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C (SW3010A)								
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 12:48	IO
Copper	12.0	0.0100		mg/L	208701	1	06/15/2015 12:48	IO
Lead	0.0690	0.0100		mg/L	208701	1	06/15/2015 12:48	IO
Zinc	101	0.0400		mg/L	208701	2	06/15/2015 15:16	IO

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW PEST CONTROL 12H
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
4,4´-DDE	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
4,4´-DDT	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Aldrin	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
alpha-BHC	160	5.0		ug/L	208729	100	06/15/2015 13:33	RS
alpha-Chlordane	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
beta-BHC	22	5.0		ug/L	208729	100	06/15/2015 13:33	RS
delta-BHC	420	50		ug/L	208729	1000	06/15/2015 14:09	RS
Dieldrin	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Endosulfan I	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
Endosulfan II	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Endosulfan sulfate	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Endrin	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Endrin aldehyde	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
Endrin ketone	BRL	10		ug/L	208729	100	06/15/2015 13:33	RS
gamma-BHC	310	50		ug/L	208729	1000	06/15/2015 14:09	RS
gamma-Chlordane	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
Heptachlor	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
Heptachlor epoxide	BRL	5.0		ug/L	208729	100	06/15/2015 13:33	RS
Methoxychlor	BRL	50		ug/L	208729	100	06/15/2015 13:33	RS
Toxaphene	BRL	500		ug/L	208729	100	06/15/2015 13:33	RS
Surr: Decachlorobiphenyl	135	14.6-130	S	%REC	208729	100	06/15/2015 13:33	RS
Surr: Tetrachloro-m-xylene	404	14.4-116	S	%REC	208729	100	06/15/2015 13:33	RS

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in 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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW PEST TEST 12HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
4,4´-DDE	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
4,4´-DDT	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Aldrin	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
alpha-BHC	0.11	0.050		ug/L	208729	1	06/15/2015 13:51	RS
alpha-Chlordane	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
beta-BHC	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
delta-BHC	0.33	0.050		ug/L	208729	1	06/15/2015 13:51	RS
Dieldrin	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Endosulfan I	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
Endosulfan II	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Endosulfan sulfate	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Endrin	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Endrin aldehyde	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
Endrin ketone	BRL	0.10		ug/L	208729	1	06/15/2015 13:51	RS
gamma-BHC	0.24	0.050		ug/L	208729	1	06/15/2015 13:51	RS
gamma-Chlordane	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
Heptachlor	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
Heptachlor epoxide	BRL	0.050		ug/L	208729	1	06/15/2015 13:51	RS
Methoxychlor	BRL	0.50		ug/L	208729	1	06/15/2015 13:51	RS
Toxaphene	BRL	5.0		ug/L	208729	1	06/15/2015 13:51	RS
Surr: Decachlorobiphenyl	76.4	14.6-130		%REC	208729	1	06/15/2015 13:51	RS
Surr: Tetrachloro-m-xylene	66	14.4-116		%REC	208729	1	06/15/2015 13:51	RS

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL CONTROL 1
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C (SW3005A)								
Arsenic	BRL	0.0500		mg/L	208721	1	06/13/2015 00:11	TA
Copper	45.3	0.0100		mg/L	208721	1	06/13/2015 00:11	TA
Lead	0.224	0.0100		mg/L	208721	1	06/13/2015 00:11	TA
Zinc	122	0.200		mg/L	208721	1	06/15/2015 15:13	TA

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL TEST 12HR-I
Project Name:	BFEL Atlanta	**Collection Date:**	6/11/2015 8:00:00 AM
Lab ID:	1506D74-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C (SW3005A)								
Arsenic	BRL	0.0500		mg/L	208721	1	06/13/2015 00:14	TA
Copper	4.39	0.0100		mg/L	208721	1	06/13/2015 00:14	TA
Lead	BRL	0.0100		mg/L	208721	1	06/13/2015 00:14	TA
Zinc	105	0.200		mg/L	208721	1	06/15/2015 15:16	TA

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 Orin Tech Work Order Number 1506074

Checklist completed by Tanya Delis 6/18/15
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 5.0 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes __ No ✓

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by Tanya

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 18-Jun-15

Client: ORIN Technologies
Project Name: BFEL Atlanta
Lab Order: 1506D74

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506D74-001A	BAM GW VOC CONTROL 12H	6/11/2015 8:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/12/2015 9:56:00 AM	06/12/2015
1506D74-001A	BAM GW VOC CONTROL 12H	6/11/2015 8:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/12/2015 9:56:00 AM	06/13/2015
1506D74-002A	BAM GW VOC TRAT 12HR	6/11/2015 8:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/12/2015 9:56:00 AM	06/13/2015
1506D74-002A	BAM GW VOC TRAT 12HR	6/11/2015 8:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/12/2015 9:56:00 AM	06/15/2015
1506D74-003A	BAM GW METAL CONTROL '	6/11/2015 8:00:00AM	Aqueous	TOTAL METALS BY ICP		6/12/2015 1:40:00 PM	06/15/2015
1506D74-004A	BAM GW METAL TEST 12HR	6/11/2015 8:00:00AM	Aqueous	TOTAL METALS BY ICP		6/12/2015 1:40:00 PM	06/15/2015
1506D74-005A	BAM GW PEST CONTROL 12	6/11/2015 8:00:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		6/13/2015 11:00:00 AM	06/15/2015
1506D74-006A	BAM GW PEST TEST 12HR	6/11/2015 8:00:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		6/13/2015 11:00:00 AM	06/15/2015
1506D74-007A	BAM GW METAL CONTROL 1	6/11/2015 8:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/12/2015 4:00:19 PM	06/13/2015
1506D74-007A	BAM GW METAL CONTROL 1	6/11/2015 8:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/12/2015 4:00:19 PM	06/15/2015
1506D74-008A	BAM GW METAL TEST 12HR-	6/11/2015 8:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/12/2015 4:00:19 PM	06/13/2015
1506D74-008A	BAM GW METAL TEST 12HR-	6/11/2015 8:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/12/2015 4:00:19 PM	06/15/2015

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208701

Sample ID: **MB-208701** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293889**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **208701** Analysis Date: **06/15/2015** Seq No: **6261455**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-208701** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293889**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **208701** Analysis Date: **06/15/2015** Seq No: **6261456**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.049	0.0500	1.000	0.003365	105	80	120				
Copper	1.012	0.0100	1.000		101	80	120				
Lead	1.033	0.0100	1.000		103	80	120				
Zinc	1.038	0.0200	1.000		104	80	120				

Sample ID: **1506C34-001CMS** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293889**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **208701** Analysis Date: **06/15/2015** Seq No: **6261458**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.044	0.0500	1.000	0.01063	103	75	125				
Copper	0.9769	0.0100	1.000	0.01008	96.7	75	125				
Lead	0.9855	0.0100	1.000		98.6	75	125				
Zinc	1.037	0.0200	1.000	0.03700	100.0	75	125				

Sample ID: **1506C34-001CMSD** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293889**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **208701** Analysis Date: **06/15/2015** Seq No: **6261459**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.029	0.0500	1.000	0.01063	102	75	125	1.044	1.49	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208701

Sample ID: **1506C34-001CMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C**
Units: **mg/L** Prep Date: **06/12/2015** Run No: **293889**
BatchID: **208701** Analysis Date: **06/15/2015** Seq No: **6261459**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.9631	0.0100	1.000	0.01008	95.3	75	125	0.9769	1.42	20	
Lead	0.9742	0.0100	1.000		97.4	75	125	0.9855	1.16	20	
Zinc	1.022	0.0200	1.000	0.03700	98.5	75	125	1.037	1.50	20	

Qualifiers:

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

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208713

Sample ID: **MB-208713** Client ID: Units: **ug/L** Prep Date: **06/12/2015** Run No: **293740**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6258260**

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	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									

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208713

Sample ID: **MB-208713** Client ID: Units: **ug/L** Prep Date: **06/12/2015** Run No: **293740**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6258260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	38.64	0	50.00		77.3	70.6	123				
Surr: Dibromofluoromethane	59.24	0	50.00		118	78.7	124				
Surr: Toluene-d8	47.03	0	50.00		94.1	81.3	120				

Qualifiers:

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

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208713

Sample ID: **LCS-208713** Client ID: Units: **ug/L** Prep Date: **06/12/2015** Run No: **293740**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6258259**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	65.07	5.0	50.00		130	64.2	137				
Benzene	55.21	5.0	50.00		110	72.8	128				
Chlorobenzene	52.43	5.0	50.00		105	72.3	126				
Toluene	54.31	5.0	50.00		109	74.9	127				
Trichloroethene	51.83	5.0	50.00		104	70.5	134				
Surr: 4-Bromofluorobenzene	40.48	0	50.00		81.0	70.6	123				
Surr: Dibromofluoromethane	56.80	0	50.00		114	78.7	124				
Surr: Toluene-d8	44.52	0	50.00		89.0	81.3	120				

Sample ID: **1506A38-023AMS** Client ID: Units: **ug/L** Prep Date: **06/12/2015** Run No: **293757**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6260538**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	56450	5000	50000		113	60.5	156				
Benzene	50720	5000	50000		101	70	135				
Chlorobenzene	51850	5000	50000		104	70.5	132				
Toluene	51700	5000	50000		103	70.5	137				
Trichloroethene	49930	5000	50000		99.9	71.8	139				
Surr: 4-Bromofluorobenzene	44200	0	50000		88.4	70.6	123				
Surr: Dibromofluoromethane	49450	0	50000		98.9	78.7	124				
Surr: Toluene-d8	46420	0	50000		92.8	81.3	120				

Sample ID: **1506A38-023AMSD** Client ID: Units: **ug/L** Prep Date: **06/12/2015** Run No: **293757**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6260539**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	53600	5000	50000		107	60.5	156	56450	5.18	20	
Benzene	50700	5000	50000		101	70	135	50720	0.039	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208713

Sample ID: **1506A38-023AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **06/12/2015** Run No: **293757**
BatchID: **208713** Analysis Date: **06/12/2015** Seq No: **6260539**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	51790	5000	50000		104	70.5	132	51850	0.116	20	
Toluene	50700	5000	50000		101	70.5	137	51700	1.95	20	
Trichloroethene	48020	5000	50000		96.0	71.8	139	49930	3.90	20	
Surr: 4-Bromofluorobenzene	44130	0	50000		88.3	70.6	123	44200	0	0	
Surr: Dibromofluoromethane	49840	0	50000		99.7	78.7	124	49450	0	0	
Surr: Toluene-d8	46220	0	50000		92.4	81.3	120	46420	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208721

Sample ID: **MB-208721** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293814**
SampleType: **MBLK** TestCode: **METALS, DISSOLVED** **SW6010C** BatchID: **208721** Analysis Date: **06/12/2015** Seq No: **6259887**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-208721** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293814**
SampleType: **LCS** TestCode: **METALS, DISSOLVED** **SW6010C** BatchID: **208721** Analysis Date: **06/12/2015** Seq No: **6259888**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.021	0.0500	1.000		102	80	120				
Copper	0.9800	0.0100	1.000		98.0	80	120				
Lead	1.024	0.0100	1.000		102	80	120				
Zinc	1.065	0.0200	1.000		107	80	120				

Sample ID: **1506C40-001CMS** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293814**
SampleType: **MS** TestCode: **METALS, DISSOLVED** **SW6010C** BatchID: **208721** Analysis Date: **06/12/2015** Seq No: **6259890**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.002	0.0500	1.000		100	75	125				
Copper	1.033	0.0100	1.000	0.08539	94.8	75	125				
Lead	0.9834	0.0100	1.000		98.3	75	125				
Zinc	1.044	0.0200	1.000	0.01536	103	75	125				

Sample ID: **1506C40-001CMSD** Client ID: Units: **mg/L** Prep Date: **06/12/2015** Run No: **293814**
SampleType: **MSD** TestCode: **METALS, DISSOLVED** **SW6010C** BatchID: **208721** Analysis Date: **06/12/2015** Seq No: **6259891**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9861	0.0500	1.000		98.6	75	125	1.002	1.61	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208721

Sample ID: **1506C40-001CMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, DISSOLVED** **SW6010C**
Units: **mg/L** Prep Date: **06/12/2015** Run No: **293814**
BatchID: **208721** Analysis Date: **06/12/2015** Seq No: **6259891**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	1.014	0.0100	1.000	0.08539	92.9	75	125	1.033	1.82	20	
Lead	0.9689	0.0100	1.000		96.9	75	125	0.9834	1.49	20	
Zinc	1.024	0.0200	1.000	0.01536	101	75	125	1.044	1.92	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208729

Sample ID: **MB-208729** Client ID: Units: **ug/L** Prep Date: **06/13/2015** Run No: **293885**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208729** Analysis Date: **06/15/2015** Seq No: **6262027**

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									
Aldrin	BRL	0.050									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
Endosulfan I	BRL	0.050									
Endosulfan II	BRL	0.10									
Endosulfan sulfate	BRL	0.10									
Endrin	BRL	0.10									
Endrin aldehyde	BRL	0.10									
Endrin ketone	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Heptachlor epoxide	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.3477	0	0.5000		69.5	14.6	130				
Surr: Tetrachloro-m-xylene	0.2639	0	0.5000		52.8	14.4	116				

Sample ID: **LCS-208729** Client ID: Units: **ug/L** Prep Date: **06/13/2015** Run No: **293885**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208729** Analysis Date: **06/15/2015** Seq No: **6262028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506D74

ANALYTICAL QC SUMMARY REPORT

BatchID: 208729

Sample ID: **LCS-208729** Client ID: Units: **ug/L** Prep Date: **06/13/2015** Run No: **293885**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208729** Analysis Date: **06/15/2015** Seq No: **6262028**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8182	0.10	1.000		81.8	52.5	140				
Aldrin	0.7980	0.050	1.000		79.8	43	123				
Dieldrin	0.8441	0.10	1.000		84.4	59.5	137				
Endrin	0.8397	0.10	1.000		84.0	53.2	139				
gamma-BHC	0.8794	0.050	1.000		87.9	46	134				
Heptachlor	0.7371	0.050	1.000		73.7	44.7	127				
Surr: Decachlorobiphenyl	0.3904	0	0.5000		78.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.2784	0	0.5000		55.7	14.4	116				

Sample ID: **LCSD-208729** Client ID: Units: **ug/L** Prep Date: **06/13/2015** Run No: **293885**
SampleType: **LCSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208729** Analysis Date: **06/15/2015** Seq No: **6262030**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.8170	0.10	1.000		81.7	52.5	140	0.8182	0.141	23.5	
Aldrin	0.8004	0.050	1.000		80.0	43	123	0.7980	0.298	20	
Dieldrin	0.8266	0.10	1.000		82.7	59.5	137	0.8441	2.11	19.2	
Endrin	0.8187	0.10	1.000		81.9	53.2	139	0.8397	2.54	21.3	
gamma-BHC	0.7883	0.050	1.000		78.8	46	134	0.8794	10.9	20	
Heptachlor	0.7440	0.050	1.000		74.4	44.7	127	0.7371	0.930	19.5	
Surr: Decachlorobiphenyl	0.3761	0	0.5000		75.2	14.6	130	0.3904	0	0	
Surr: Tetrachloro-m-xylene	0.2780	0	0.5000		55.6	14.4	116	0.2784	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 23, 2015

Larry Linsman
ORIN Technologies
405 Investment Ct
Verona WI 53593

TEL:
FAX:

RE: BFEL Atlanta

Dear Larry Linsman: Order No: 1506F46

Analytical Environmental Services, Inc. received 8 samples on 6/13/2015 9:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Dorothy deBruyn
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

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

CHAIN OF CUSTODY

Work Order: 1506546

Date: 6/10/15 Page 1 of 1

COMPANY:	ADDRESS:
ORIN Technologies	405 Investment Ct. Verona, WI 53593
PHONE: 608-838-6699	FAX: 608-838-6695
SAMPLED BY: Larry Kinsman	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260 VOC	6010 metal total	8081 Pest	6010 metal dissolved	REMARKS	No # of Containers
	PRESERVATION (See codes)						H	N	NA	NA		
1	BAM GW VOC Control 24hr				X		X					3
2	BAM GW VOC Test 24hr						X					3
3	BAM GW metal control 24hr	Total						X			total metals	1
4	BAM GW Metal test 24hr	Total						X			total metals	1
5	BAM GW Pest control 24hr								X			1
6	ORIN GW Pest test 24hr								X			1
7	BAM GW metal Control 24 HR - Dissolved									X	dissolved Metals	1
8	BAM GW metal Test 24 HR - Dissolved									X	dissolved Metals	1
9												
10												
11											Need to filter at lab	
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: Keith Becker	6-12-15 16:30	1: [illegible]	6/13/15 9:55
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
Please call when sample arrives!
608-445-7707

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

PROJECT INFORMATION

PROJECT NAME: BFEL - Atlanta
PROJECT #: 6122080154.18
SITE ADDRESS:
SEND REPORT TO: Larry Kinsman
INVOICE TO: ORIN
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 12

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

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Client: ORIN Technologies
Project: BFEL Atlanta
Lab ID: 1506F46

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1506F46-001A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Pesticide Analysis by Method 8081B:

Due to sample matrix, sample 1506F46-005A required dilution during analysis resulting in elevated reporting limits.

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

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 24H
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,1,2,2-Tetrachloroethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,1,2-Trichloroethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,1-Dichloroethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,1-Dichloroethene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2,4-Trichlorobenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2-Dibromo-3-chloropropane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2-Dibromoethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2-Dichlorobenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2-Dichloroethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,2-Dichloropropane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,3-Dichlorobenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
1,4-Dichlorobenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
2-Butanone	83000	25000		ug/L	208924	500	06/17/2015 11:22	CH
2-Hexanone	BRL	5000		ug/L	208924	500	06/17/2015 11:22	CH
4-Methyl-2-pentanone	29000	5000		ug/L	208924	500	06/17/2015 11:22	CH
Acetone	94000	25000		ug/L	208924	500	06/17/2015 11:22	CH
Benzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Bromodichloromethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Bromoform	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Bromomethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Carbon disulfide	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Carbon tetrachloride	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Chlorobenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Chloroethane	BRL	5000		ug/L	208924	500	06/17/2015 11:22	CH
Chloroform	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Chloromethane	BRL	5000		ug/L	208924	500	06/17/2015 11:22	CH
cis-1,2-Dichloroethene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
cis-1,3-Dichloropropene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Cyclohexane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Dibromochloromethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Dichlorodifluoromethane	BRL	5000		ug/L	208924	500	06/17/2015 11:22	CH
Ethylbenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Freon-113	BRL	5000		ug/L	208924	500	06/17/2015 11:22	CH
Isopropylbenzene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
m,p-Xylene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Methyl acetate	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Methyl tert-butyl ether	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Methylcyclohexane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Methylene chloride	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
o-Xylene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 24H
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Tetrachloroethene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Toluene	13000	2500		ug/L	208924	500	06/17/2015 11:22	CH
trans-1,2-Dichloroethene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
trans-1,3-Dichloropropene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Trichloroethene	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Trichlorofluoromethane	BRL	2500		ug/L	208924	500	06/17/2015 11:22	CH
Vinyl chloride	BRL	1000		ug/L	208924	500	06/17/2015 11:22	CH
Surr: 4-Bromofluorobenzene	96.6	70.6-123		%REC	208924	500	06/17/2015 11:22	CH
Surr: Dibromofluoromethane	94.2	78.7-124		%REC	208924	500	06/17/2015 11:22	CH
Surr: Toluene-d8	105	81.3-120		%REC	208924	500	06/17/2015 11:22	CH

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TEST 24HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,1-Dichloroethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,1-Dichloroethene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2-Dibromoethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2-Dichloroethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,2-Dichloropropane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
2-Butanone	7700	5000		ug/L	208924	100	06/17/2015 12:33	CH
2-Hexanone	BRL	10		ug/L	208924	1	06/17/2015 19:13	CH
4-Methyl-2-pentanone	62	10		ug/L	208924	1	06/17/2015 19:13	CH
Acetone	38000	5000		ug/L	208924	100	06/17/2015 12:33	CH
Benzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Bromodichloromethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Bromoform	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Bromomethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Carbon disulfide	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Carbon tetrachloride	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Chlorobenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Chloroethane	BRL	10		ug/L	208924	1	06/17/2015 19:13	CH
Chloroform	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Chloromethane	BRL	10		ug/L	208924	1	06/17/2015 19:13	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Cyclohexane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Dibromochloromethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Dichlorodifluoromethane	BRL	10		ug/L	208924	1	06/17/2015 19:13	CH
Ethylbenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Freon-113	BRL	10		ug/L	208924	1	06/17/2015 19:13	CH
Isopropylbenzene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
m,p-Xylene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Methyl acetate	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Methylcyclohexane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Methylene chloride	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
o-Xylene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TEST 24HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Tetrachloroethene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Toluene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Trichloroethene	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Trichlorofluoromethane	BRL	5.0		ug/L	208924	1	06/17/2015 19:13	CH
Vinyl chloride	BRL	2.0		ug/L	208924	1	06/17/2015 19:13	CH
Surr: 4-Bromofluorobenzene	83.1	70.6-123		%REC	208924	1	06/17/2015 19:13	CH
Surr: 4-Bromofluorobenzene	95.3	70.6-123		%REC	208924	100	06/17/2015 12:33	CH
Surr: Dibromofluoromethane	98	78.7-124		%REC	208924	100	06/17/2015 12:33	CH
Surr: Dibromofluoromethane	109	78.7-124		%REC	208924	1	06/17/2015 19:13	CH
Surr: Toluene-d8	103	81.3-120		%REC	208924	100	06/17/2015 12:33	CH
Surr: Toluene-d8	107	81.3-120		%REC	208924	1	06/17/2015 19:13	CH

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in 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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL CONTROL 2
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C				**(SW3010A)**				
Arsenic	BRL	0.0500		mg/L	208867	1	06/17/2015 14:27	IO
Copper	47.7	0.200		mg/L	208867	20	06/23/2015 09:47	IO
Lead	0.263	0.0100		mg/L	208867	1	06/17/2015 14:27	IO
Zinc	118	0.400		mg/L	208867	20	06/23/2015 09:47	IO

Qualifiers:

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

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

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL TEST 24HR-
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C (SW3010A)								
Arsenic	0.0736	0.0500		mg/L	208867	1	06/17/2015 18:33	IO
Copper	24.4	0.200		mg/L	208867	20	06/23/2015 09:54	IO
Lead	0.0926	0.0100		mg/L	208867	1	06/17/2015 18:33	IO
Zinc	121	0.400		mg/L	208867	20	06/23/2015 09:54	IO

Qualifiers:

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

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

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW PEST CONTROL 24H
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.93	0.10		ug/L	208968	1	06/19/2015 00:33	SH
4,4´-DDE	BRL	0.10		ug/L	208968	1	06/19/2015 00:33	SH
4,4´-DDT	0.99	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Aldrin	BRL	0.050		ug/L	208968	1	06/19/2015 00:33	SH
alpha-BHC	230	25		ug/L	208968	500	06/20/2015 12:41	RS
alpha-Chlordane	BRL	0.050		ug/L	208968	1	06/19/2015 00:33	SH
beta-BHC	27	1.0		ug/L	208968	20	06/19/2015 16:06	SH
delta-BHC	660	25		ug/L	208968	500	06/20/2015 12:41	RS
Dieldrin	1.1	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Endosulfan I	BRL	0.050		ug/L	208968	1	06/19/2015 00:33	SH
Endosulfan II	BRL	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Endosulfan sulfate	BRL	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Endrin	BRL	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Endrin aldehyde	BRL	0.10		ug/L	208968	1	06/19/2015 00:33	SH
Endrin ketone	0.74	0.10		ug/L	208968	1	06/19/2015 00:33	SH
gamma-BHC	480	25		ug/L	208968	500	06/20/2015 12:41	RS
gamma-Chlordane	BRL	1.0		ug/L	208968	20	06/19/2015 16:06	SH
Heptachlor	BRL	0.050		ug/L	208968	1	06/19/2015 00:33	SH
Heptachlor epoxide	BRL	0.050		ug/L	208968	1	06/19/2015 00:33	SH
Methoxychlor	BRL	0.50		ug/L	208968	1	06/19/2015 00:33	SH
Toxaphene	BRL	5.0		ug/L	208968	1	06/19/2015 00:33	SH
Surr: Decachlorobiphenyl	96.3	14.6-130		%REC	208968	1	06/19/2015 00:33	SH
Surr: Tetrachloro-m-xylene	146	14.4-116	S	%REC	208968	1	06/19/2015 00:33	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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW PEST TEST 24HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
4,4´-DDE	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
4,4´-DDT	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Aldrin	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
alpha-BHC	0.23	0.050		ug/L	208968	1	06/19/2015 00:51	SH
alpha-Chlordane	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
beta-BHC	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
delta-BHC	0.67	0.050		ug/L	208968	1	06/19/2015 00:51	SH
Dieldrin	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Endosulfan I	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
Endosulfan II	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Endosulfan sulfate	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Endrin	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Endrin aldehyde	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
Endrin ketone	BRL	0.10		ug/L	208968	1	06/19/2015 00:51	SH
gamma-BHC	0.46	0.050		ug/L	208968	1	06/19/2015 00:51	SH
gamma-Chlordane	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
Heptachlor	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
Heptachlor epoxide	BRL	0.050		ug/L	208968	1	06/19/2015 00:51	SH
Methoxychlor	BRL	0.50		ug/L	208968	1	06/19/2015 00:51	SH
Toxaphene	BRL	5.0		ug/L	208968	1	06/19/2015 00:51	SH
Surr: Decachlorobiphenyl	59.8	14.6-130		%REC	208968	1	06/19/2015 00:51	SH
Surr: Tetrachloro-m-xylene	47.2	14.4-116		%REC	208968	1	06/19/2015 00:51	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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL CONTROL 2
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C (SW3005A)								
Arsenic	BRL	0.0500		mg/L	208801	1	06/15/2015 19:41	TA
Copper	45.1	0.0100		mg/L	208801	1	06/15/2015 19:41	TA
Lead	0.190	0.0100		mg/L	208801	1	06/15/2015 19:41	TA
Zinc	121	0.400		mg/L	208801	20	06/22/2015 18:34	TA

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-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL TEST 24HR-I
Project Name:	BFEL Atlanta	**Collection Date:**	6/13/2015
Lab ID:	1506F46-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, DISSOLVED SW6010C (SW3005A)								
Arsenic	BRL	0.0500		mg/L	208801	1	06/15/2015 19:44	TA
Copper	25.8	0.0100		mg/L	208801	1	06/15/2015 19:44	TA
Lead	BRL	0.0100		mg/L	208801	1	06/15/2015 19:44	TA
Zinc	124	0.400		mg/L	208801	20	06/22/2015 18:37	TA

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Qin Tech Work Order Number 1506F46

Checklist completed by Tanya Delk 6/13/15
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 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by Tanya

Sample Condition: Good ✓ Other(Explain) _____

(For diffusive samples or AIHA lead) Is a known blank included? Yes __ No ✓

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Analytical Environmental Services, Inc

Date: 23-Jun-15

Client: ORIN Technologies
Project Name: BFEL Atlanta
Lab Order: 1506F46

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1506F46-001A	BAM GW VOC CONTROL 24H	6/13/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/16/2015 9:04:00 PM	06/17/2015
1506F46-002A	BAM GW VOC TEST 24HR	6/13/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		6/16/2015 9:04:00 PM	06/17/2015
1506F46-003A	BAM GW METAL CONTROL 2	6/13/2015 12:00:00AM	Aqueous	TOTAL METALS BY ICP		6/16/2015 12:15:00 PM	06/17/2015
1506F46-003A	BAM GW METAL CONTROL 2	6/13/2015 12:00:00AM	Aqueous	TOTAL METALS BY ICP		6/16/2015 12:15:00 PM	06/23/2015
1506F46-004A	BAM GW METAL TEST 24HR	6/13/2015 12:00:00AM	Aqueous	TOTAL METALS BY ICP		6/16/2015 12:15:00 PM	06/17/2015
1506F46-004A	BAM GW METAL TEST 24HR	6/13/2015 12:00:00AM	Aqueous	TOTAL METALS BY ICP		6/16/2015 12:15:00 PM	06/23/2015
1506F46-005A	BAM GW PEST CONTROL 24	6/13/2015 12:00:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F46-005A	BAM GW PEST CONTROL 24	6/13/2015 12:00:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/20/2015
1506F46-006A	BAM GW PEST TEST 24HR	6/13/2015 12:00:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		6/18/2015 9:00:00 AM	06/19/2015
1506F46-007A	BAM GW METAL CONTROL 2	6/13/2015 12:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/15/2015 11:55:00 AM	06/15/2015
1506F46-007A	BAM GW METAL CONTROL 2	6/13/2015 12:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/15/2015 11:55:00 AM	06/22/2015
1506F46-008A	BAM GW METAL TEST 24HR-	6/13/2015 12:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/15/2015 11:55:00 AM	06/15/2015
1506F46-008A	BAM GW METAL TEST 24HR-	6/13/2015 12:00:00AM	Aqueous	DISSOLVED METALS BY ICP		6/15/2015 11:55:00 AM	06/22/2015

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208801

Sample ID: **MB-208801**	Client ID:			Units: **mg/L**	Prep Date: **06/15/2015**	Run No: **293984**
SampleType: **MBLK**	TestCode: **METALS, DISSOLVED**	**SW6010C**		BatchID: **208801**	Analysis Date: **06/15/2015**	Seq No: **6263839**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-208801**	Client ID:			Units: **mg/L**	Prep Date: **06/15/2015**	Run No: **293984**
SampleType: **LCS**	TestCode: **METALS, DISSOLVED**	**SW6010C**		BatchID: **208801**	Analysis Date: **06/15/2015**	Seq No: **6263840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9892	0.0500	1.000		98.9	80	120				
Copper	0.9334	0.0100	1.000		93.3	80	120				
Lead	0.9664	0.0100	1.000		96.6	80	120				
Zinc	1.003	0.0200	1.000		100	80	120				

Sample ID: **1506996-001EMS**	Client ID:			Units: **mg/L**	Prep Date: **06/15/2015**	Run No: **293984**
SampleType: **MS**	TestCode: **METALS, DISSOLVED**	**SW6010C**		BatchID: **208801**	Analysis Date: **06/15/2015**	Seq No: **6263841**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9841	0.0500	1.000		98.4	75	125				
Copper	0.9337	0.0100	1.000		93.4	75	125				
Lead	0.9630	0.0100	1.000		96.3	75	125				
Zinc	1.007	0.0200	1.000		101	75	125				

Sample ID: **1506996-001EMSD**	Client ID:			Units: **mg/L**	Prep Date: **06/15/2015**	Run No: **293984**
SampleType: **MSD**	TestCode: **METALS, DISSOLVED**	**SW6010C**		BatchID: **208801**	Analysis Date: **06/15/2015**	Seq No: **6263842**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9827	0.0500	1.000		98.3	75	125	0.9841	0.141	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208801

Sample ID: **1506996-001EMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, DISSOLVED** **SW6010C**
Units: **mg/L** Prep Date: **06/15/2015** Run No: **293984**
BatchID: **208801** Analysis Date: **06/15/2015** Seq No: **6263842**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.9301	0.0100	1.000		93.0	75	125	0.9337	0.385	20	
Lead	0.9607	0.0100	1.000		96.1	75	125	0.9630	0.238	20	
Zinc	1.002	0.0200	1.000		100	75	125	1.007	0.462	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208867

Sample ID: **MB-208867** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294141**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **208867** Analysis Date: **06/17/2015** Seq No: **6267259**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-208867** Client ID: Units: **mg/L** Prep Date: **06/16/2015** Run No: **294141**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **208867** Analysis Date: **06/17/2015** Seq No: **6267260**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.013	0.0500	1.000		101	80	120				
Copper	1.015	0.0100	1.000		101	80	120				
Lead	1.009	0.0100	1.000		101	80	120				
Zinc	1.017	0.0200	1.000	0.005904	101	80	120				

Sample ID: **1506F46-003AMS** Client ID: **BAM GW METAL CONTROL 24HR-TOTAL** Units: **mg/L** Prep Date: **06/16/2015** Run No: **294141**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **208867** Analysis Date: **06/17/2015** Seq No: **6267262**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.013	0.0500	1.000	0.04701	96.6	75	125				
Copper	44.79	0.0100	1.000	44.86	-6.10	75	125				S
Lead	1.155	0.0100	1.000	0.2632	89.2	75	125				
Zinc	94.83	0.0200	1.000	95.82	-99.6	75	125				S

Sample ID: **1506F46-003AMSD** Client ID: **BAM GW METAL CONTROL 24HR-TOTAL** Units: **mg/L** Prep Date: **06/16/2015** Run No: **294141**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **208867** Analysis Date: **06/17/2015** Seq No: **6267263**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.027	0.0500	1.000	0.04701	98.0	75	125	1.013	1.42	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208867

Sample ID: **1506F46-003AMSD** Client ID: **BAM GW METAL CONTROL 24HR-TOTAL** Units: **mg/L** Prep Date: **06/16/2015** Run No: **294141**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **208867** Analysis Date: **06/17/2015** Seq No: **6267263**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	46.20	0.0100	1.000	44.86	135	75	125	44.79	3.09	20	S
Lead	1.167	0.0100	1.000	0.2632	90.3	75	125	1.155	1.02	20	
Zinc	96.67	0.0200	1.000	95.82	84.5	75	125	94.83	1.92	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208924

Sample ID: **MB-208924** Client ID: Units: **ug/L** Prep Date: **06/16/2015** Run No: **294056**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/16/2015** Seq No: **6265343**

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	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									

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208924

Sample ID: **MB-208924** Client ID: Units: **ug/L** Prep Date: **06/16/2015** Run No: **294056**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/16/2015** Seq No: **6265343**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.81	0	50.00		91.6	70.6	123				
Surr: Dibromofluoromethane	51.65	0	50.00		103	78.7	124				
Surr: Toluene-d8	47.82	0	50.00		95.6	81.3	120				

Qualifiers:

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

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208924

Sample ID: **LCS-208924** Client ID: Units: **ug/L** Prep Date: **06/16/2015** Run No: **294056**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/16/2015** Seq No: **6265342**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	61.93	5.0	50.00		124	64.2	137				
Benzene	50.28	5.0	50.00		101	72.8	128				
Chlorobenzene	48.76	5.0	50.00		97.5	72.3	126				
Toluene	49.69	5.0	50.00		99.4	74.9	127				
Trichloroethene	49.10	5.0	50.00		98.2	70.5	134				
Surr: 4-Bromofluorobenzene	45.73	0	50.00		91.5	70.6	123				
Surr: Dibromofluoromethane	50.50	0	50.00		101	78.7	124				
Surr: Toluene-d8	47.40	0	50.00		94.8	81.3	120				

Sample ID: **1506F46-001AMS** Client ID: **BAM GW VOC CONTROL 24HR** Units: **ug/L** Prep Date: **06/16/2015** Run No: **294063**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/17/2015** Seq No: **6266055**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31880	2500	25000		128	60.5	156				
Benzene	26760	2500	25000		107	70	135				
Chlorobenzene	24460	2500	25000		97.8	70.5	132				
Toluene	41640	2500	25000	12630	116	70.5	137				
Trichloroethene	25850	2500	25000		103	71.8	139				
Surr: 4-Bromofluorobenzene	23570	0	25000		94.3	70.6	123				
Surr: Dibromofluoromethane	24210	0	25000		96.8	78.7	124				
Surr: Toluene-d8	27350	0	25000		109	81.3	120				

Sample ID: **1506F46-001AMSD** Client ID: **BAM GW VOC CONTROL 24HR** Units: **ug/L** Prep Date: **06/16/2015** Run No: **294063**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/17/2015** Seq No: **6266508**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	29410	2500	25000		118	60.5	156	31880	8.08	20	
Benzene	25610	2500	25000		102	70	135	26760	4.39	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208924

Sample ID: **1506F46-001AMSD** Client ID: **BAM GW VOC CONTROL 24HR** Units: **ug/L** Prep Date: **06/16/2015** Run No: **294063**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208924** Analysis Date: **06/17/2015** Seq No: **6266508**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	22500	2500	25000		90.0	70.5	132	24460	8.33	20	
Toluene	39240	2500	25000	12630	106	70.5	137	41640	5.94	20	
Trichloroethene	24880	2500	25000		99.5	71.8	139	25850	3.84	20	
Surr: 4-Bromofluorobenzene	24380	0	25000		97.5	70.6	123	23570	0	0	
Surr: Dibromofluoromethane	25030	0	25000		100	78.7	124	24210	0	0	
Surr: Toluene-d8	27150	0	25000		109	81.3	120	27350	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208968

Sample ID: **MB-208968** Client ID: Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271850**

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									
Aldrin	BRL	0.050									
alpha-BHC	BRL	0.050									
alpha-Chlordane	BRL	0.050									
beta-BHC	BRL	0.050									
delta-BHC	BRL	0.050									
Dieldrin	BRL	0.10									
Endosulfan I	BRL	0.050									
Endosulfan II	BRL	0.10									
Endosulfan sulfate	BRL	0.10									
Endrin	BRL	0.10									
Endrin aldehyde	BRL	0.10									
Endrin ketone	BRL	0.10									
gamma-BHC	BRL	0.050									
gamma-Chlordane	BRL	0.050									
Heptachlor	BRL	0.050									
Heptachlor epoxide	BRL	0.050									
Methoxychlor	BRL	0.50									
Toxaphene	BRL	5.0									
Surr: Decachlorobiphenyl	0.4443	0	0.5000		88.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.4368	0	0.5000		87.4	14.4	116				

Sample ID: **LCS-208968** Client ID: Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271851**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208968

Sample ID: **LCS-208968** Client ID: Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271851**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	1.014	0.10	1.000		101	52.5	140				
Aldrin	0.9910	0.050	1.000		99.1	43	123				
Dieldrin	1.009	0.10	1.000	0.01042	99.9	59.5	137				
Endrin	0.9515	0.10	1.000		95.2	53.2	139				
gamma-BHC	0.9303	0.050	1.000	0.007730	92.3	46	134				
Heptachlor	0.8946	0.050	1.000		89.5	44.7	127				
Surr: Decachlorobiphenyl	0.4330	0	0.5000		86.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.4190	0	0.5000		83.8	14.4	116				

Sample ID: **1506E34-001AMS** Client ID: Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271853**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9702	0.10	1.000		97.0	27.1	146				
Aldrin	1.063	0.050	1.000		106	30.6	123				
Dieldrin	1.058	0.10	1.000		106	39.4	142				
Endrin	0.9747	0.10	1.000		97.5	45.3	142				
gamma-BHC	0.9772	0.050	1.000		97.7	34.5	144				
Heptachlor	0.9518	0.050	1.000		95.2	33	138				
Surr: Decachlorobiphenyl	0.3755	0	0.5000		75.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.4584	0	0.5000		91.7	14.4	116				

Sample ID: **1506E34-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9861	0.10	1.000		98.6	27.1	146	0.9702	1.63	21.2	
Aldrin	1.055	0.050	1.000		105	30.6	123	1.063	0.796	22.9	

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506F46

ANALYTICAL QC SUMMARY REPORT

BatchID: 208968

Sample ID: **1506E34-001AMSD** Client ID:
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**
Units: **ug/L** Prep Date: **06/18/2015** Run No: **294327**
BatchID: **208968** Analysis Date: **06/18/2015** Seq No: **6271854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dieldrin	1.059	0.10	1.000		106	39.4	142	1.058	0.092	20	
Endrin	0.9836	0.10	1.000		98.4	45.3	142	0.9747	0.910	21.7	
gamma-BHC	0.9363	0.050	1.000		93.6	34.5	144	0.9772	4.27	23.1	
Heptachlor	0.9327	0.050	1.000		93.3	33	138	0.9518	2.02	26.9	
Surr: Decachlorobiphenyl	0.3515	0	0.5000		70.3	14.6	130	0.3755	0	0	
Surr: Tetrachloro-m-xylene	0.4034	0	0.5000		80.7	14.4	116	0.4584	0	0	

Qualifiers:

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

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 25, 2015

Larry Linsman
ORIN Technologies
405 Investment Ct
Verona WI 53593

TEL:
FAX:

RE: BFEL Atlanta

Dear Larry Linsman: Order No: 1506G45

Analytical Environmental Services, Inc. received 6 samples on 6/16/2015 7:45:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

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

Dorothy deBruyn
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1506645

Date: 6/15/15 Page 1 of 1

COMPANY:	ADDRESS:
ORIN Technologies	405 Investment Ct. Verona, WI 53593
PHONE: 608-838-6699	FAX: 608-838-6695
SAMPLED BY: Larry Kinsman	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260 VOC	6010 metal	8081 Pest	Total Phthalates	Total Organic Carbon	PRESERVATION (See codes) H	N	NA		No # of Containers	REMARKS
1	BAM GW VOC control 96hr	6-15-15	8:00		X		X									3	
2	BAM GW VOC test 96hr	"	"				X									3	
3	BAM GW metal control 96hr	"	"					X					X			1	
4	BAM GW metal test 96hr	"	"					X					X			1	
5	BAM GW Pest control 96hr	"	"						X					X		1	
6	ORIN GW Pest test 96hr	"	"						X					X		1	
7															⊗	⊗	
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:		1:	6/16/15 7:45
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
Please call when sample arrives!
608-445-7707

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

PROJECT INFORMATION
PROJECT NAME: BFEL - Atlanta
PROJECT #: 6122080154.18
SITE ADDRESS:
SEND REPORT TO: Larry Kinsman
INVOICE TO: ORIN
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers ⊗⊗

Turnaround Time Request 10
⊗ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

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

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 25-Jun-15

Client: ORIN Technologies
Project: BFEL Atlanta
Lab ID: 1506G45

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1506G45-001A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 96 H
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,1,2,2-Tetrachloroethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,1,2-Trichloroethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,1-Dichloroethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,1-Dichloroethene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2,4-Trichlorobenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2-Dibromo-3-chloropropane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2-Dibromoethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2-Dichlorobenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2-Dichloroethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,2-Dichloropropane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,3-Dichlorobenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
1,4-Dichlorobenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
2-Butanone	75000	25000		ug/L	208950	500	06/18/2015 13:33	NP
2-Hexanone	BRL	5000		ug/L	208950	500	06/18/2015 13:33	NP
4-Methyl-2-pentanone	26000	5000		ug/L	208950	500	06/18/2015 13:33	NP
Acetone	91000	25000		ug/L	208950	500	06/18/2015 13:33	NP
Benzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Bromodichloromethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Bromoform	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Bromomethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Carbon disulfide	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Carbon tetrachloride	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Chlorobenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Chloroethane	BRL	5000		ug/L	208950	500	06/18/2015 13:33	NP
Chloroform	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Chloromethane	BRL	5000		ug/L	208950	500	06/18/2015 13:33	NP
cis-1,2-Dichloroethene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
cis-1,3-Dichloropropene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Cyclohexane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Dibromochloromethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Dichlorodifluoromethane	BRL	5000		ug/L	208950	500	06/18/2015 13:33	NP
Ethylbenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Freon-113	BRL	5000		ug/L	208950	500	06/18/2015 13:33	NP
Isopropylbenzene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
m,p-Xylene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Methyl acetate	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Methyl tert-butyl ether	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Methylcyclohexane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Methylene chloride	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
o-Xylene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC CONTROL 96 H
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-001	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Tetrachloroethene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Toluene	12000	2500		ug/L	208950	500	06/18/2015 13:33	NP
trans-1,2-Dichloroethene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
trans-1,3-Dichloropropene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Trichloroethene	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Trichlorofluoromethane	BRL	2500		ug/L	208950	500	06/18/2015 13:33	NP
Vinyl chloride	BRL	1000		ug/L	208950	500	06/18/2015 13:33	NP
Surr: 4-Bromofluorobenzene	91.1	70.6-123		%REC	208950	500	06/18/2015 13:33	NP
Surr: Dibromofluoromethane	109	78.7-124		%REC	208950	500	06/18/2015 13:33	NP
Surr: Toluene-d8	111	81.3-120		%REC	208950	500	06/18/2015 13:33	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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TEST 96 HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
2-Butanone	5200	5000		ug/L	208950	100	06/18/2015 14:41	NP
2-Hexanone	BRL	10		ug/L	208950	1	06/19/2015 09:37	NP
4-Methyl-2-pentanone	48	10		ug/L	208950	1	06/19/2015 09:37	NP
Acetone	41000	25000		ug/L	208950	500	06/18/2015 17:19	NP
Benzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Bromodichloromethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Bromoform	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Bromomethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Carbon disulfide	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Chlorobenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Chloroethane	BRL	10		ug/L	208950	1	06/19/2015 09:37	NP
Chloroform	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Chloromethane	BRL	10		ug/L	208950	1	06/19/2015 09:37	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Cyclohexane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Dibromochloromethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	208950	1	06/19/2015 09:37	NP
Ethylbenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Freon-113	BRL	10		ug/L	208950	1	06/19/2015 09:37	NP
Isopropylbenzene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
m,p-Xylene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Methyl acetate	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Methylcyclohexane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Methylene chloride	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
o-Xylene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW VOC TEST 96 HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Tetrachloroethene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Toluene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Trichloroethene	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	208950	1	06/19/2015 09:37	NP
Vinyl chloride	BRL	2.0		ug/L	208950	1	06/19/2015 09:37	NP
Surr: 4-Bromofluorobenzene	90.2	70.6-123		%REC	208950	500	06/18/2015 17:19	NP
Surr: 4-Bromofluorobenzene	81.8	70.6-123		%REC	208950	1	06/19/2015 09:37	NP
Surr: 4-Bromofluorobenzene	90.6	70.6-123		%REC	208950	100	06/18/2015 14:41	NP
Surr: Dibromofluoromethane	108	78.7-124		%REC	208950	500	06/18/2015 17:19	NP
Surr: Dibromofluoromethane	106	78.7-124		%REC	208950	1	06/19/2015 09:37	NP
Surr: Dibromofluoromethane	110	78.7-124		%REC	208950	100	06/18/2015 14:41	NP
Surr: Toluene-d8	97	81.3-120		%REC	208950	500	06/18/2015 17:19	NP
Surr: Toluene-d8	96.7	81.3-120		%REC	208950	100	06/18/2015 14:41	NP
Surr: Toluene-d8	101	81.3-120		%REC	208950	1	06/19/2015 09:37	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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL CONTROL 9
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-003	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C (SW3010A)								
Arsenic	BRL	0.0500		mg/L	208942	1	06/18/2015 23:09	IO
Copper	45.7	0.0100		mg/L	208942	1	06/18/2015 23:09	IO
Lead	0.245	0.0100		mg/L	208942	1	06/18/2015 23:09	IO
Zinc	96.7	0.0200		mg/L	208942	1	06/18/2015 23:09	IO

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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW METAL TEST 96 HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C (SW3010A)								
Arsenic	BRL	0.0500		mg/L	208942	1	06/18/2015 23:14	IO
Copper	18.2	0.0100		mg/L	208942	1	06/18/2015 23:14	IO
Lead	0.0710	0.0100		mg/L	208942	1	06/18/2015 23:14	IO
Zinc	87.0	0.0200		mg/L	208942	1	06/18/2015 23:14	IO

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	BAM GW PEST CONTROL 96 I
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	0.86	0.10		ug/L	208999	1	06/24/2015 13:14	SH
4,4´-DDE	BRL	0.10		ug/L	208999	1	06/24/2015 13:14	SH
4,4´-DDT	1.2	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Aldrin	BRL	0.050		ug/L	208999	1	06/24/2015 13:14	SH
alpha-BHC	180	25		ug/L	208999	500	06/23/2015 16:25	SH
alpha-Chlordane	BRL	0.050		ug/L	208999	1	06/24/2015 13:14	SH
beta-BHC	32	25		ug/L	208999	500	06/23/2015 16:25	SH
delta-BHC	530	25		ug/L	208999	500	06/23/2015 16:25	SH
Dieldrin	1.0	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Endosulfan I	BRL	0.050		ug/L	208999	1	06/24/2015 13:14	SH
Endosulfan II	BRL	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Endosulfan sulfate	BRL	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Endrin	BRL	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Endrin aldehyde	BRL	0.10		ug/L	208999	1	06/24/2015 13:14	SH
Endrin ketone	0.67	0.10		ug/L	208999	1	06/24/2015 13:14	SH
gamma-BHC	380	25		ug/L	208999	500	06/23/2015 16:25	SH
gamma-Chlordane	0.20	0.050		ug/L	208999	1	06/24/2015 13:14	SH
Heptachlor	BRL	0.050		ug/L	208999	1	06/24/2015 13:14	SH
Heptachlor epoxide	BRL	0.050		ug/L	208999	1	06/24/2015 13:14	SH
Methoxychlor	BRL	0.50		ug/L	208999	1	06/24/2015 13:14	SH
Toxaphene	BRL	5.0		ug/L	208999	1	06/24/2015 13:14	SH
Surr: Decachlorobiphenyl	92.6	14.6-130		%REC	208999	1	06/24/2015 13:14	SH
Surr: Tetrachloro-m-xylene	96.6	14.4-116		%REC	208999	1	06/24/2015 13:14	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:** 25-Jun-15

Client:	ORIN Technologies	**Client Sample ID:**	ORIN GW PEST TEST 96 HR
Project Name:	BFEL Atlanta	**Collection Date:**	6/15/2015 8:00:00 AM
Lab ID:	1506G45-006	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B				**(SW3510C)**				
4,4´-DDD	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
4,4´-DDE	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
4,4´-DDT	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Aldrin	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
alpha-BHC	0.069	0.050		ug/L	208999	1	06/23/2015 16:06	SH
alpha-Chlordane	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
beta-BHC	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
delta-BHC	0.23	0.050		ug/L	208999	1	06/23/2015 16:06	SH
Dieldrin	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Endosulfan I	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
Endosulfan II	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Endosulfan sulfate	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Endrin	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Endrin aldehyde	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
Endrin ketone	BRL	0.10		ug/L	208999	1	06/23/2015 16:06	SH
gamma-BHC	0.15	0.050		ug/L	208999	1	06/23/2015 16:06	SH
gamma-Chlordane	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
Heptachlor	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
Heptachlor epoxide	BRL	0.050		ug/L	208999	1	06/23/2015 16:06	SH
Methoxychlor	BRL	0.50		ug/L	208999	1	06/23/2015 16:06	SH
Toxaphene	BRL	5.0		ug/L	208999	1	06/23/2015 16:06	SH
Surr: Decachlorobiphenyl	75.1	14.6-130		%REC	208999	1	06/23/2015 16:06	SH
Surr: Tetrachloro-m-xylene	48.3	14.4-116		%REC	208999	1	06/23/2015 16:06	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 Orm Tech Work Order Number 1506645

Checklist completed by Miriam Lacuna 6/16/15
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 3.9° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

Chain of custody signed when relinquished and received? Yes ✓ No __

Chain of custody agrees with sample labels? Yes ✓ No __

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

Proceed with Standard TAT as per project history? Yes __ No __ Not Applicable ✓

Water - VOA vials have zero headspace? No VOA vials submitted __ Yes ✓ No __

Water - pH acceptable upon receipt? Yes ✓ No __ Not Applicable __

Adjusted? _____ Checked by MIRIAM

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.

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208942

Sample ID: **MB-208942** Client ID: Units: **mg/L** Prep Date: **06/17/2015** Run No: **294272**
SampleType: **MBLK** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **208942** Analysis Date: **06/22/2015** Seq No: **6273294**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Copper	BRL	0.0100									
Lead	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: **LCS-208942** Client ID: Units: **mg/L** Prep Date: **06/17/2015** Run No: **294272**
SampleType: **LCS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **208942** Analysis Date: **06/18/2015** Seq No: **6270429**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.026	0.0500	1.000		103	80	120				
Copper	1.026	0.0100	1.000		103	80	120				
Lead	1.024	0.0100	1.000		102	80	120				
Zinc	1.042	0.0200	1.000	0.006166	104	80	120				

Sample ID: **1506H41-004BMS** Client ID: Units: **mg/L** Prep Date: **06/17/2015** Run No: **294272**
SampleType: **MS** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **208942** Analysis Date: **06/18/2015** Seq No: **6270431**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.004	0.0500	1.000		100	75	125				
Copper	1.023	0.0100	1.000	0.009131	101	75	125				
Lead	1.006	0.0100	1.000	0.003819	100	75	125				
Zinc	1.063	0.0200	1.000	0.06128	100	75	125				

Sample ID: **1506H41-004BMSD** Client ID: Units: **mg/L** Prep Date: **06/17/2015** Run No: **294272**
SampleType: **MSD** TestCode: **METALS, TOTAL** **SW6010C** BatchID: **208942** Analysis Date: **06/18/2015** Seq No: **6270432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.000	0.0500	1.000		100	75	125	1.004	0.398	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208942

Sample ID: **1506H41-004BMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C**
Units: **mg/L** Prep Date: **06/17/2015** Run No: **294272**
BatchID: **208942** Analysis Date: **06/18/2015** Seq No: **6270432**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	1.020	0.0100	1.000	0.009131	101	75	125	1.023	0.338	20	
Lead	0.9983	0.0100	1.000	0.003819	99.5	75	125	1.006	0.736	20	
Zinc	1.055	0.0200	1.000	0.06128	99.3	75	125	1.063	0.785	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208950

Sample ID: **MB-208950** Client ID: Units: **ug/L** Prep Date: **06/17/2015** Run No: **294119**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/17/2015** Seq No: **6267661**

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									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	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									

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208950

Sample ID: **MB-208950** Client ID: Units: **ug/L** Prep Date: **06/17/2015** Run No: **294119**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/17/2015** Seq No: **6267661**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.89	0	50.00		89.8	70.6	123				
Surr: Dibromofluoromethane	52.46	0	50.00		105	78.7	124				
Surr: Toluene-d8	48.29	0	50.00		96.6	81.3	120				

Qualifiers:

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

Client: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208950

Sample ID: **LCS-208950** Client ID: Units: **ug/L** Prep Date: **06/17/2015** Run No: **294119**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/17/2015** Seq No: **6267660**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	65.37	5.0	50.00		131	64.2	137				
Benzene	53.49	5.0	50.00		107	72.8	128				
Chlorobenzene	53.72	5.0	50.00		107	72.3	126				
Toluene	54.29	5.0	50.00		109	74.9	127				
Trichloroethene	53.10	5.0	50.00		106	70.5	134				
Surr: 4-Bromofluorobenzene	45.14	0	50.00		90.3	70.6	123				
Surr: Dibromofluoromethane	49.94	0	50.00		99.9	78.7	124				
Surr: Toluene-d8	46.73	0	50.00		93.5	81.3	120				

Sample ID: **1506G45-001AMS** Client ID: **BAM GW VOC CONTROL 96 HR** Units: **ug/L** Prep Date: **06/17/2015** Run No: **294181**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/18/2015** Seq No: **6268669**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	30680	2500	25000		123	60.5	156				
Benzene	27240	2500	25000		109	70	135				
Chlorobenzene	26450	2500	25000		106	70.5	132				
Toluene	42090	2500	25000	12120	120	70.5	137				
Trichloroethene	26130	2500	25000		105	71.8	139				
Surr: 4-Bromofluorobenzene	23160	0	25000		92.6	70.6	123				
Surr: Dibromofluoromethane	26120	0	25000		104	78.7	124				
Surr: Toluene-d8	26540	0	25000		106	81.3	120				

Sample ID: **1506G45-001AMSD** Client ID: **BAM GW VOC CONTROL 96 HR** Units: **ug/L** Prep Date: **06/17/2015** Run No: **294181**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/18/2015** Seq No: **6268696**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	29470	2500	25000		118	60.5	156	30680	4.01	20	
Benzene	25690	2500	25000		103	70	135	27240	5.84	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208950

Sample ID: **1506G45-001AMSD** Client ID: **BAM GW VOC CONTROL 96 HR** Units: **ug/L** Prep Date: **06/17/2015** Run No: **294181**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **208950** Analysis Date: **06/18/2015** Seq No: **6268696**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	25340	2500	25000		101	70.5	132	26450	4.31	20	
Toluene	40480	2500	25000	12120	113	70.5	137	42090	3.90	20	
Trichloroethene	25550	2500	25000		102	71.8	139	26130	2.24	20	
Surr: 4-Bromofluorobenzene	23240	0	25000		93.0	70.6	123	23160	0	0	
Surr: Dibromofluoromethane	26140	0	25000		105	78.7	124	26120	0	0	
Surr: Toluene-d8	26790	0	25000		107	81.3	120	26540	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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208999

Sample ID: **MB-208999** Client ID: Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279645**

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	0.025									
4,4´-DDE	BRL	0.025									
4,4´-DDT	BRL	0.025									
Aldrin	BRL	0.012									
alpha-BHC	BRL	0.012									
alpha-Chlordane	BRL	0.012									
beta-BHC	BRL	0.012									
delta-BHC	BRL	0.012									
Dieldrin	BRL	0.025									
Endosulfan I	BRL	0.012									
Endosulfan II	BRL	0.025									
Endosulfan sulfate	BRL	0.025									
Endrin	BRL	0.025									
Endrin aldehyde	BRL	0.025									
Endrin ketone	BRL	0.025									
gamma-BHC	BRL	0.012									
gamma-Chlordane	BRL	0.012									
Heptachlor	BRL	0.012									
Heptachlor epoxide	BRL	0.012									
Methoxychlor	BRL	0.12									
Toxaphene	BRL	1.2									
Surr: Decachlorobiphenyl	0.07565	0	0.5000		15.1	14.6	130				
Surr: Tetrachloro-m-xylene	0.05894	0	0.5000		11.8	14.4	116				S

Sample ID: **LCS-208999** Client ID: Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279646**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208999

Sample ID: **LCS-208999** Client ID: Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279646**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9537	0.10	1.000		95.4	52.5	140				
Aldrin	0.6408	0.050	1.000		64.1	43	123				
Dieldrin	0.9302	0.10	1.000		93.0	59.5	137				
Endrin	0.9248	0.10	1.000		92.5	53.2	139				
gamma-BHC	0.8931	0.050	1.000		89.3	46	134				
Heptachlor	0.6755	0.050	1.000		67.5	44.7	127				
Surr: Decachlorobiphenyl	0.4430	0	0.5000		88.6	14.6	130				
Surr: Tetrachloro-m-xylene	0.3110	0	0.5000		62.2	14.4	116				

Sample ID: **1506H97-001AMS** Client ID: Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
SampleType: **MS** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279648**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	0.9228	0.10	1.000		92.3	27.1	146				
Aldrin	0.6042	0.050	1.000		60.4	30.6	123				
Dieldrin	0.8839	0.10	1.000		88.4	39.4	142				
Endrin	0.8967	0.10	1.000		89.7	45.3	142				
gamma-BHC	0.7607	0.050	1.000		76.1	34.5	144				
Heptachlor	0.6118	0.050	1.000		61.2	33	138				
Surr: Decachlorobiphenyl	0.4146	0	0.5000		82.9	14.6	130				
Surr: Tetrachloro-m-xylene	0.2717	0	0.5000		54.3	14.4	116				

Sample ID: **1506H97-001AMSD** Client ID: Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B** BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279649**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDT	1.066	0.10	1.000		107	27.1	146	0.9228	14.4	21.2	
Aldrin	0.7362	0.050	1.000		73.6	30.6	123	0.6042	19.7	22.9	

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: ORIN Technologies
Project Name: BFEL Atlanta
Workorder: 1506G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 208999

Sample ID: **1506H97-001AMSD** Client ID:
SampleType: **MSD** TestCode: **CHLORINATED PESTICIDES, TCL SW8081B**
Units: **ug/L** Prep Date: **06/19/2015** Run No: **294641**
BatchID: **208999** Analysis Date: **06/24/2015** Seq No: **6279649**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Dieldrin	1.028	0.10	1.000		103	39.4	142	0.8839	15.1	20	
Endrin	1.046	0.10	1.000		105	45.3	142	0.8967	15.4	21.7	
gamma-BHC	0.9008	0.050	1.000		90.1	34.5	144	0.7607	16.9	23.1	
Heptachlor	0.7416	0.050	1.000		74.2	33	138	0.6118	19.2	26.9	
Surr: Decachlorobiphenyl	0.4343	0	0.5000		86.9	14.6	130	0.4146	0	0	
Surr: Tetrachloro-m-xylene	0.2782	0	0.5000		55.6	14.4	116	0.2717	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		

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Voluntary Remediation Plan Status Report #7
August 7, 2015

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