



February 7, 2019

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Via: 1 Paper Copy and 2 PDF copies on CD

**RE: Voluntary Remediation Plan Status Report No. 14
Former Estech General Chemicals Site - Atlanta, Georgia
HSI Site No. 10196 Parcels 17-0191-LL0244 and 17-0191-LL0400
Wood Project 6122-08-0154**

Dear Mr. Hayes:

Wood Environment & Infrastructure Solutions, Inc. (Wood), on behalf of BFEL Indemnitor, Inc. (BFEL), is hereby submitting the attached Status Report No.14 for Voluntary Remediation Program 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 statute and requested by the Georgia Environmental Protection Division (EPD) in their approval letter dated February 8, 2012. This status report covers the period from August 2018 to January 2019. The report includes information on the recent site-wide groundwater and surface water monitoring and further evaluation of the M&J Solvent site VOC plume impact on the Estech site.

Please review the attached report and contact Greg Wrenn at (770) 421-3472 or greg.wrenn@woodplc.com with any questions you may have and to schedule a meeting.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

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Voluntary Remediation Program Status Report No. 14

Former Estech General Chemical Site
Atlanta, Fulton County, Georgia
Parcels 17-0191-LL0244 and 17-0191-LL0400
HSI Site No. 10196
6122-08-0154

Prepared for:

BFEL Indemnitor, Inc.
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Prepared by:

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2/8/2019

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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

Feb. 7, 2019
Date


Signature and Stamp



2.0 Introduction and Background

This Voluntary Remediation Program Semi-Annual Status Report No. 14 (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 fourteenth Status Report covers the activities conducted from August 2018 until shortly before the submittal of this status report (January 2019).

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 (RRS). The most recent HSRA Compliance Status Report (CSR) was prepared and submitted on 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 after 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 proposed a groundwater recirculating system with a limestone infiltration gallery treatment process on the BFEL property in conjunction with a surficial limestone PRB near the seep drainage feature near the unnamed stream on CSX property. A Type 5 RRS was also 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. The Revised Remediation Plan was discussed with EPD in a meeting on September 18, 2014, and EPD subsequently issued comments on VRP Status Reports Nos. 4 and No. 5 in correspondence dated October 7, 2014

and December 1, 2014. Based upon concerns regarding the groundwater recirculating system potentially exacerbating the spread of the M&J Solvent site's up-gradient volatile organic compound (VOC) plume, BFEL has put that portion of the proposed remedy on hold and is focusing on implementing the surficial PRB in the seep drainage feature. EPD provided comments on VRP Status Reports Nos. 6 through 9 in correspondence dated September 22, 2016 and BFEL responded to those comments in Status Report No. 10. A meeting with BFEL and EPD was held on June 22, 2017 to discuss the path forward for the site and review the conceptual design of the surficial PRB. The conceptual design drawings for the surficial PRB were submitted to EPD in Status Report No. 11. In a letter dated June 29, 2018, EPD provided comments on Status Reports Nos. 10, 11, and 12. Responses to those comments were addressed in Status Report No. 13. A meeting with BFEL and EPD was conducted on October 11, 2018 to discuss the results of the surface soil investigation, results of the revised human health and ecological risk evaluations and path forward for the site.

3.0 Work Performed From August 2018 to January 2019

The activities currently identified to be performed at the Estech site under the VRP are outlined in the VIRP, dated March 16, 2011, the EPD VIRP approval letter dated February 8, 2012, and the EPD VIRP comment letter dated February 8, 2012. The activities conducted from August 2018 through January 2019 include semi-annual groundwater and surface water sampling and analysis, meeting with EPD, permitting for surficial PRB. These activities are described in the following sections.

3.1 Semi-Annual Groundwater Sampling and Analysis

Groundwater samples were collected from 39 permanent monitoring wells located on the Estech and CSX properties from November 7 through 16, 2018 (Figure 1). The following monitoring wells were sampled:

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

Well MW-21 was dry and was not sampled in November 2018. MW-24 is damaged and could not be sampled. This well will be abandoned in the future. Adjacent well MW-25 screens the same depth interval as MW-24 and is used to monitor this location. A summary of the groundwater sample data is presented on Table 1. The depth to water was measured in the monitoring wells 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-R4. Submersible or peristaltic pumps were used to purge the wells. The depth of water determined which pump type was used. 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-R4, 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, depending on the depth to water below casing. The permanent monitoring wells (MWs) are two-inch diameter wells and were purged and sampled with a submersible Grundfos Redi-Flo2 pump or peristaltic pump. If the depth to water was less than 25 feet, a peristaltic pump was used to purge and sample. The Grundfos pump was used when the depth to water was deeper than 25 feet. The groundwater samples were collected and analyzed for the following constituents:

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

To further investigate if VOCs from the upgradient M&J Solvents' site are potentially impacting the Estech site, groundwater samples from select monitoring wells were analyzed for VOCs using USEPA method 8260B. The 36 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-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	OW-1	OW-2	OW-3

3.2 Semi-Annual Surface Water Sampling and Analysis

Eight surface water samples were collected on November 19, 2018 from the un-named stream and seep drainage feature on CSX property. The sample identifications are:

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

Surface water sample SW-2010-5 was collected in the stream adjacent to well location MW-106D/MW-121. Samples SW-2010-10 and SW-2010-11 were collected from the stream, upstream and downstream, respectively, of the culvert beneath the "pork-barrel" rail line. Samples SW-2010-14, SW-2010-15, and SW-2010-17 were collected in the stream downstream of the culvert and upstream of Marietta Boulevard (Figure 1). Two water samples (SW2014-20 and SW2014-21) were collected in November 2018 from groundwater seepage that discharges to a drainage feature on the west side of the railroad tracks and upstream of the 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 8081B
- Dissolved Arsenic, Lead, Copper, and Zinc using USEPA Method 6020B
- Nitrate and Sulfate using USEPA Method 9056A

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

The second semi-annual groundwater and surface-water sampling event for 2018 was conducted from November 6 to 16, 2018. The sampling event consisted of measuring the depth to water in monitoring wells, gauging the surface water elevation at four locations along the un-named stream, and sampling and analyzing groundwater samples from monitoring wells and surface water samples from the un-named stream. The interpreted groundwater flow direction and gradients and groundwater and surface water analytical results are discussed below.

3.3.1 Groundwater Flow Direction, Gradients and Velocity

The depth to water was measured in 39 monitoring wells on November 6, 2018 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 896.35 feet in well MW-101 and the lowest elevation was 833.91 feet in well MW-107D. The November 2018 groundwater elevations are on average about 1.5 feet lower than the May 2018 elevations and are on average about 0.4 feet higher than the October 2017 groundwater elevations (second 2017 semi-annual event). The lower groundwater elevations in the November 2018 are attributed to decreased precipitation in September (1.48 inches total for the month) prior to the November 2018 sampling event. 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 0.031 to 0.051 feet per foot based on the November 2018 potentiometric map. The groundwater seepage velocity was estimated using an average hydraulic conductivity of 0.84 feet /day or 3×10^{-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 0.11 to 0.18 feet per day or 41 to 67 feet per year which is consistent with previous velocities.

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 0.005 feet/foot. A downward gradient (0.28 and 0.16 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 (0.48 feet/foot) at well pair MW-106D/MW-121.

The groundwater elevation in well MW-121 (862.17 feet), screening the uppermost fractured bedrock next to the un-named stream was about 0.6 feet lower than the surface water elevation (862.72 feet) in the stream next to the well pair. The groundwater elevation in well MW-106D (843.66 feet), screening a deeper depth in the fractured bedrock was about 19 feet lower than the surface water elevation. Staff Gauge #3 located east of wells MW-119/MW-120 could not be located during this event and is suspected to have been damaged with the recent removal of railroad tracks. The groundwater elevation in well MW-107D (833.91 feet), screened just below the soil/bedrock interface, was about 2 feet lower than the stream elevation at Staff Gauge #4 (836.08 feet). Groundwater in the deeper fractured 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 site monitoring wells and analyzed for organochlorine pesticides, total and dissolved arsenic, copper, lead, zinc, total nitrate and sulfate. The BHC isomers were the predominant pesticides detected with beta-BHC being detected most often in the November 2018 samples. Copper and zinc were the predominant metals detected, followed by lead. The dissolved metal concentrations were similar, though generally lower than the total metals concentrations. Nitrate and sulfate were also detected. Monitoring well TW-8 had the highest pesticide concentrations. Well TW-7 had the highest metals. Well TW-7 also had the highest nitrate and sulfate concentrations during the November 2018 event.

The groundwater analytical results are summarized on Table 3, and the laboratory reports are provided in Appendix A. Total copper concentrations ranged from 0.00245 to 153 mg/L while dissolved copper ranged from 0.00202 to 41.8 mg/L. Total zinc concentrations ranged from 0.0109 to 326 mg/L while dissolved zinc ranged from 0.0136 to 89.3 mg/L. Well TW-7 had the highest copper and zinc concentrations. Figure 3 presents the metals data for the monitoring wells from November 2018. The metals in groundwater are delineated based on the Type 1 RRS as shown on Figure 3. The groundwater plume as indicated on Figure 3 is located on the northern and eastern portions of the Estech property and the CSX property abutting the Estech eastern property boundary. The data indicates the lower pH readings generally correlate to higher metals concentrations, particularly copper and zinc. The lower pH groundwater coincides

with groundwater metals concentrations that are greater than the Type 1 RRS. The copper and zinc concentrations above the Type 1 RRS are primarily located on the eastern portion of the Estech property and the western portion of the CSX property adjacent to Estech, and north of well MW-117 and south of wells MW-104A/MW-104D. Metals concentrations in groundwater on the western and southern portions of the Estech property and on the eastern portion of the CSX property near the stream are either non-detect or below the Type 1 RRS. Downgradient wells (MW-105, MW-106D, MW-107D, MW-119, MW-120, and MW-121) adjacent to the stream are less than Type 1 RRS. The area with metal concentrations above the Type 1 RRS is bounded by areas that are either non-detect or below the Type 1 RRS. Generally, the surface water concentrations were less than the site groundwater concentrations.

Total and dissolved arsenic and lead were also analyzed in the groundwater samples. Arsenic and lead concentrations were either non-detect or slightly above the Type 1 RRS and were generally less than the copper and zinc concentrations (Table 3). The total arsenic concentrations ranged from 0.0117 to 0.15 mg/L, while the dissolved concentrations ranged from 0.0111 to 0.04 mg/L. The total lead concentrations ranged from 0.00126 to 0.827 mg/L, while the dissolved concentrations ranged from 0.00199 to 0.102 mg/L. Well OW-1 had the highest arsenic concentration while MW-109 had the highest lead concentration. The extent of arsenic and lead in groundwater is defined based on Type 1 RRS values (Figure 3). The November 2018 total metals concentrations were higher than the May 2018 total metals concentrations.

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 0.000054 to 0.47 mg/L. Beta-BHC concentrations ranged from 0.00016 to 0.051 mg/L. Delta-BHC concentrations ranged from 0.000075 to 1.3 mg/L while gamma-BHC concentrations ranged from 0.000052 to 1.1 mg/L. The November 2018 BHC concentrations were lower than the May 2018 concentrations. BHC concentrations in well TW-8 decreased from the May 2018 sampling event and concentrations were similar to those in 2017 and earlier concentrations. Pesticides were detected for the first time in wells TW-10 and TW-11 in November 2015, the wells had been non-detect for the previous five to six sampling events. Well TW-10 had a detection of delta-BHC in November 2018 after being non-detect for the previous three events. Well TW-11 pesticide concentrations continued to be non-detect for the November 2018 sampling event.

DDD, DDE, and DDT were detected at concentrations ranging from 0.00018 to 0.0054 mg/L in wells TW-1, TW-8, MW-108, and OW-1 which have a history of these constituents' detections. Dieldrin (0.00011 to 0.0048 mg/L) was detected in wells TW-8, TW-9, MW-111, and OW-1. In November 2018, gamma-chlordane was detected in well TW-8 and previously in May 2018. Alpha -chlordane was not detected in November 2018. Toxaphene was detected for the first

time in well MW-26 and has only been detected once before in well TW-1 in May 2014. The November 2018 total pesticide concentrations were slightly lower than the May 2018 total concentrations.

Nitrate and sulfate do not have Type 1 RRS because they are not regulated constituents under HSRA or VRP. The extent of nitrate and sulfate in groundwater is shown on Figure 5. The higher sulfate concentrations generally coincide with lower pH values and higher metals concentrations in the groundwater. Nitrate concentrations in November 2018 ranged from 0.26 to 110 mg/L and were about the same as May 2018 results. Sulfate concentrations in November 2018 ranged from 30 to 3300 mg/L and were lower than the May 2018 results. Wells TW-7, TW-8, and MW-109 had the highest concentrations, respectively.

3.3.3 Groundwater Analytical Results for M&J Solvents' Volatile Organic Compounds

In November 2018, 36 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 proposed pump-and-treat remediation could potentially pull the M&J Solvents site VOC groundwater plume toward or onto the Estech property. This is the eight site-wide sampling for M&J Solvents' VOCs on the Estech site. The purpose of this sampling was to further evaluate the extent of VOCs, previously detected in June 2016 and earlier on the Estech property, from the M&J Solvents site and their potential impact on the construction of an Estech site pump-and-treat groundwater 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 2018 data indicated the M&J Solvents site VOC groundwater plume was present across the northern third of the Estech property and in the area of well TW-8. 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 Estech and CSX properties. The Estech property groundwater flow is from the west to the east toward the stream. The M&J site potentiometric surface contours show groundwater flow toward the unnamed stream and generally toward the northern and western Estech property boundaries. However, there are no groundwater wells or groundwater elevation data from the southern portion of the Whitaker Oil property to confirm the direction of groundwater flow from the southern portion of the Whitaker Oil property in relation to the Estech property. Nineteen VOCs were detected and included benzene, ethylbenzene, toluene, xylenes (BTEX), to chlorinated VOCs (1,1,1-trichloroethane, 1,1-dichloroethene, chlorobenzene, chloroform, trichloroethene, tetrachloroethene, cis-1,2-dichloroethene, tetrahydrofuran, 1,2,4-trichlorobenzene, 1,4-dioxane,

naphthalene, and vinyl chloride) to ketones (acetone, 2-butanone and 4-methyl-2-pentanone) (Table 5). Well MW-104D, located on CSX property and sidegradient to the Estech property, but directly downgradient of M&J Solvents, had the highest concentrations of VOCs, including tetrahydrofuran, toluene and xylenes 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 (1,4-dioxane, cis-1,2-dichloroethene, and trichloroethene). 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 (cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, and vinyl chloride). Wells OW-1 to OW-3 were sampled for the sixth time in November 2018 and had low concentrations of chlorobenzene with well OW-2 having the higher concentrations. Low concentrations of 1,2,4-Trichlorobenzene were detected in wells OW-2 and TW-8. The VOC impact to these 13 wells is very likely from the M&J Solvents site.

Wells TW-8, MW-111, OW-1, OW-2, and OW-3 located in the former pond area of Estech had detections of chlorobenzene (0.0062 to 1.1 mg/L). Well TW-3 also had a detection of chlorobenzene (0.025 mg/L) and is side gradient to wells TW-8, OW-1 to OW-3, and MW-111. Upgradient wells MW-112, MW-26, and MW-101 did not detect VOCs. There are several wells surrounding TW-8, OW-1 to OW-3 and MW-111 that are non-detect for VOCs (Figure 6). In November 2017, trichloroethene was detected for the first time in bedrock wells MW-110 and MW-121. Trichloroethene was not detected in November 2018 in wells MW-110 and MW-121. In November 2017, there were also first time trichloroethene detections in soil wells MW-22 and MW-108, but trichloroethene was not detected in November 2018 in wells MW-22 and MW-108. VOCs will continue to be monitored to evaluate concentration trends.

3.3.4 Surface Water Analytical Results

Eight surface water samples were collected from the unnamed stream in November 2018 and analyzed for site constituents. The four metals were analyzed for dissolved phase concentrations. BHCs, arsenic, lead, copper, zinc, nitrate, and sulfate were detected. The analytical results are summarized on Table 4. The BHCs ranged in concentrations of alpha-BHC 0.049 J to 0.22 µg/L, beta-BHC 0.04J to 1.5 µg/L, delta-BHC 0.02J to 0.15 µg/L, and gamma-BHC 0.016J to 0.12 µg/L based on a laboratory quantitation limit of 0.05 µg/L. Dieldrin was detected in samples SW2010-10 to SW2014-21 at 0.0054J to 0.033J µg/L, respectively. The November 2018 BHC concentrations were lower than the May 2018 concentrations.

The November 2018 dissolved metals concentrations in in the eight surface water samples showed slight increase above the May 2018 concentrations. Dissolved arsenic concentrations (0.00251 J to 0.00301 J mg/L) were below the laboratory reporting limit of 0.005 mg/L in the

eight samples. Dissolved copper was detected at concentrations ranging from 0.00807 to 0.227 mg/L, and dissolved zinc was detected at concentrations ranging from 0.399 to 5.7 mg/L. Lead concentrations were below the laboratory reporting limit of 0.001 mg/L and below the method detection limit of 0.000621 mg/L in the eight surface water samples in November 2018.

Nitrate was detected at 1.2 to 6.5 mg/L, sulfate was detected at 74 to 200 mg/L, and both slightly increased compared to the May 2018 concentrations. The SW-2014-20 and SW2014-21 samples were collected from water in the drainage feature on the west side of the railroad tracks upstream of the culvert and had higher concentrations for beta and gamma-BHCs, copper, zinc, nitrate, and sulfate than the four samples collected downstream in the main channel of the unnamed stream. Sample SW-2010-11, immediately downstream of the SW-2014-21 and SW-2014-20 locations, had pesticide and inorganics concentrations that were lower than the other four channel samples collected further downstream.

Dissolved copper and zinc concentrations are greater than the Georgia Instream Water Quality Criteria (ISWQC) for aquatic life receptors (Table 4) and are less than the human health criteria. There is no ISWQC for nitrate and sulfate. Constituent concentrations in samples (SW2010-5 and SW-2010-10) collected upstream of the railroad culvert on the east side of the railroad track are lower than the concentrations of samples (SW2010-11 to SW2010-17) collected downstream of the railroad culvert on the west side of the tracks. The highest concentrations were detected at seep sample locations (SW2014-20 and SW2014-21) and main stream channel surface water samples SW2010-14 to SW2010-17. The drainage feature that branches off the main channel upstream of the culvert on the west side of the tracks has been identified as a point of discharge for elevated concentrations of constituents, particularly zinc. The unnamed 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 humans, and as such the aquatic life water quality criteria are the more appropriate criteria.

The concentrations were compared to the ISWQC for aquatic life and human health receptors. Concentrations of alpha and beta-BHCs are greater than the ISWQC for human health exposure. The gamma-BHC concentrations were less than the criteria for human and aquatic exposures. The dissolved arsenic concentrations are below the ISWQC while the copper and zinc are above the ISWQC. The updated ecological screening level risk assessment, presented in Status Report No. 13, site constituents in the surface water of the un-named stream do not pose unacceptable risk for ecological receptors.

3.4 Revised Remediation Approach

The proposed Revised Remediation Plan was presented in VRP Status Report No. 5. The Revised Remediation Plan called for a groundwater recirculating system with a limestone infiltration gallery treatment process. The recirculating system would capture contaminated groundwater, treat the water by raising the pH, and allow the treated water to re-infiltrate back into the subsurface to help flush contaminants in soil and groundwater toward the pumping-induced capture zone while raising the pH in the subsurface soil and groundwater to reduce solubility and mobility of dissolved constituents, particularly zinc. A surficial limestone PRB was also proposed to be installed at the seep area (sample locations SW-2014-20 and SW-2014-21) 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. During a June 22, 2017 meeting with EPD, a Type 5 remedy for prevention of exposure to the site soils without a site re-development was discussed. A surface soil investigation was conducted in February 2018 to obtain data representative of current site conditions to evaluate if further corrective actions are needed for implementing the Type 5 remedy based on elimination of human and ecological receptor exposure. On October 11, 2018, a meeting was conducted with EPD's new VRP project managers and BFEL representatives. The results of the surface soil investigation and human health and ecological risk assessments were discussed and their impact on the path forward for the site. Corrective action on the Estech property to address the ecological and human health exposure to surface soil is deferred due to the state of flux of re-development of the surrounding CSX properties. Specifically, the Estech property could be included in the re-development of the Tilford Yard property.

Because implementation of these remedies will extend beyond the VRP five-year time frame, a revised project schedule and potential consent order to replace the existing administrative order were also discussed. A tentative schedule is included as Figure 7.

Previous groundwater sampling has confirmed VOC impacts on the Estech property (Figure 6) and a VOC source has been identified on the upgradient M&J Solvents' site. The VOC source on the M&J site has been treated with air-sparge/soil vacuum extraction while enhanced monitored natural attenuation is being applied to the dissolved-phase groundwater plume downgradient of the M&J Solvents site. M&J Solvents' representatives proposed installing additional wells downgradient of their site on the Estech and CSX properties as part of their on-going step-wise delineation of the M&J Solvents VOC groundwater plume. As of this report, M&J Solvents has not installed wells on the Estech property. Implementation of the proposed pump-and-treat system is currently on-hold due to concerns by BFEL and EPD that a pump-and-treat system on

the Estech property could exacerbate the M&J Solvents' VOCs groundwater plume currently impacting the Estech property.

BFEL plans to implement the surficial PRB in the drainage feature and evaluate its performance while keeping the pump-and-treat system on hold. Initial comments on the Stream Buffer Variance Application were received from EPD in late January 2018, and revisions to address the comments were completed and submitted to CSX on February 9, 2018 because EPD requested that a CSX representative sign the stream buffer variance application as the property owner. The October 2018 meeting with BFEL and EPD provided an overview of the conceptual design of the PRB and discussed the path forward for the site. The draft conceptual design drawings for the PRB were submitted to EPD in Status Report No. 11. From July 2017 to January 2019 the following activities were conducted for the design and construction of the surficial PRB.

- Preparation of the design drawings of the surficial PRB were completed.
- A Pre-Construction Notification (PCN) for coverage under the U.S. Army Corps of Engineers (USACE) Nationwide Permit 38 was submitted in August 2017, and approved by the USACE in correspondence dated October 26, 2017.
- A Stream Buffer Variance Application was submitted to the City of Atlanta in October 2017, and approved in correspondence dated November 8, 2017.
- A Stream Buffer Variance Application was submitted to the Georgia EPD on November 9, 2017. CSX signed the variance application and EPD approved the Stream Buffer Variance Application on December 7, 2018.

In several subsequent communications with Wood, CSX has expressed a willingness to grant access to the property for installation of the surficial PRB. However, as of this report, access to the property to install the surficial PRB has not been granted by CSX.

3.5 CSX Railroad Property

CSX Transportation is in the process of changing their railroad operations at the Tilford Yard. As of November 2018, CSX has removed several of the railroad tracks, including the "pork-barrel" track to the east of the Estech property. The hump yard, at the north end of Tilford Yard, used for sorting and combining trains has been closed. The main line tracks on the west side of Estech remain in-place. In January 2019, CSX placed the Tilford Yard property on the market for re-development.

4.0 Work to be Performed

On-going activities include semi-annual groundwater and surface water monitoring and reporting. Additional activities include implementation of 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 May 2019 as part of the next semi-annual monitoring event for the site. The following monitoring wells will be sampled and analyzed for site constituents:

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

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

Surface Water Sampling and Analysis

Eight surface water locations in the unnamed stream located on CSX property will be sampled and analyzed for the site constituents:

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

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

4.2 Surficial Permeable Reactive Barrier

As described in Section 3.4, the design of the surficial PRB has been completed, permitting is in progress, and BFEL continues to work with CSX for access to construct the PRB. After completing the permitting process and obtaining access permission from CSX, BFEL plans to proceed with installation of the surficial limestone PRB to evaluate the efficacy of the limestone/pH adjustment treatment concept. An estimated schedule is included as Figure 7. It is estimated to take approximately a year following installation to evaluate the performance of the surficial PRB and its effects on surface water quality. As discussed in the October 11, 2018 meeting with EPD, an extension to the initial 5-year VRP implementation period is necessary due to the changing

remediation plans, changing property ownership and/or redevelopment conditions, and up-gradient impacts from M&J Solvents.

Corrective actions for a potential Type 5 RRS remedy to control exposure to surface soils on the Estech Property is on hold until resolution of the sale/re-development of the surrounding CSX properties.

5.0 PROFESSIONAL SERVICES HOURS THIS PERIOD

Approximately 707.6 professional service hours have been provided by Wood from June 16, 2018 to December 28, 2018. A table of the breakdown of Wood's 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 28 labor hours to the project to direct and review the various aspects of implementation of the VRP during this period.

TABLES

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MEDIA: GROUNDWATER						
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2012	New well to investigate Copper and Zinc in groundwater
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/29/2013	site-wide groundwater monitoring
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2013	site-wide groundwater monitoring
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/14/2014	site-wide groundwater monitoring
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/12/2014	site-wide groundwater monitoring
TW-1	23.0	890.8/893.00	12.5-22.5	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
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-1	23.0	890.8/893.00	12.5-22.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2012	New well to investigate Copper and Zinc in groundwater
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/29/2013	site-wide groundwater monitoring
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/14/2013	site-wide groundwater monitoring
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/14/2014	site-wide groundwater monitoring
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/12/2014	site-wide groundwater monitoring
TW-2	27.2	895.5/897.89	17-27	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
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

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WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.0			Pesticides		
	btoc			Nitrate and Sulfate		
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/11/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		
TW-2	27.2	895.5/897.89	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/12/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	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	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	5/30/2013	site-wide groundwater monitoring
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
	39.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	39.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
	39.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	6/15/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-3	36.6	893.9/897.44	26.4-36.4	Total and Dissolved As, Cu, Pb, and Zn	11/13/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-4	32.3	897.2/899.36	21.8-31.8	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	32.3	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn	5/30/2013	site-wide groundwater monitoring
	33.6			Pesticides		
	btoc			Nitrate and Sulfate		
TW-4	32.3	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
TW-4	32.3	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	33.5			Pesticides		
	btoc			Nitrate and Sulfate		
TW-4	32.3	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		

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TW-4	32.3 33.5 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/29/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.5 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.5 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.4 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.4 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.8 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.8 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-4	32.3 33.8 btoc	897.2/899.36	21.8-31.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/30/2012	New well to investigate Copper and Zinc in groundwater
TW-5	30.0	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/29/2013	New well to investigate Copper and Zinc in groundwater
TW-5	30.0 29.8 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/15/2013	site-wide groundwater monitoring
TW-5	30.0 32.5 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/21/2014	site-wide groundwater monitoring
TW-5	30.0 31.5 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/21/2014	site-wide groundwater monitoring
TW-5	30.0 31.9 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/13/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 31.9 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.3 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.3 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.1 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.1 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/5/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.9 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-5	30.0 32.8 btoc	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

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WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
TW-5	30.0	888.8/891.90	19.8-29.8	Total and Dissolved As, Cu, Pb, and Zn	11/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.8			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	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	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-6	37.9	905.8/908.34	27.7-37.7	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.9			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/11/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	5/5/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	5/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40.14			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-6	37.9	905.8/908.34	27.7-37.7	Total and Dissolved As, Cu, Pb, and Zn	11/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	40.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
TW-7	31.0	897.9/899.22	20.8-30.8	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	31.0	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
	32.3			Pesticides		
	btoc			Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn	11/19/2013	site-wide groundwater monitoring
	32.3			Pesticides		
	btoc			Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
	32.3			Pesticides		
	btoc			Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	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			Pesticides		
	btoc			Site-Specific VOCs		
				Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	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			Pesticides		
	btoc			Site-Specific VOCs		
				Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.2			Pesticides		
	btoc			Site-Specific VOCs		
				Nitrate and Sulfate		
TW-7	31.0	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.2			Pesticides		
	btoc			Site-Specific VOCs		
				Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
TW-7	31.0 32.3 btoc	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Site-Specific VOCs Nitrate and Sulfate	11/11/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-7	31.0 32.3 btoc	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Site-Specific VOCs Nitrate and Sulfate	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-7	31.0 32.6 btoc	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Site-Specific VOCs Nitrate and Sulfate	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-7	31.0 32.5 btoc	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Site-Specific VOCs Nitrate and Sulfate	5/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-7	31.0 32.6 btoc	897.9/899.22	20.8-30.8	Total and Dissolved As, Cu, Pb, and Zn Pesticides Site-Specific VOCs Nitrate and Sulfate	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-8	29.2	899.3/900.36	19-29	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-8	29.2	899.3/900.36	19-29	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	1/21/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study Base line sampling prior to EHC injection
TW-8	29.5	899.3/900.36	19-29	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	4/15/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 1st quarter sampling after EHC injection
TW-8	29.5	899.3/900.36	19-29	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	7/16/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
TW-8	29.5	899.3/900.36	19-29	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	10/9/2013	site-wide groundwater monitoring and parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
TW-8	29.5	899.3/900.36	19-29	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	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/19/2014	site-wide groundwater monitoring
TW-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/14/2014	site-wide groundwater monitoring
TW-8	29.9	899.3/900.36	19-29	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-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-8	29.9 29.2 btoc	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/14/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
TW-8	29.9 29.2 btoc	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
TW-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	31.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn	5/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	31.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-8	29.9	899.3/900.36	19-29	Total and Dissolved As, Cu, Pb, and Zn	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	31.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
				Pesticides		
				Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
	35.0			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
	34.5			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	6/8/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/14/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	5/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	34.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	5/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-9	33.2	899.2/901.56	23-33	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
				Pesticides		
				Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/31/2012	New well to investigate Copper and Zinc in groundwater
				Pesticides		
				Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
	30.0			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	29.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/22/2014	site-wide groundwater monitoring
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/31/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.4			Pesticides		
	btoc			Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.0			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.0			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/14/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	5/17/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-10	29.4	895.6/896.56	19.2-29.2	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	30.2			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	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	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
	44.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
	44.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
	44.8			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	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			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.03			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	6/1/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.03			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring
	44.7			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring
	44.7			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/1/2017	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-11	42.0	914.7/918.08	31.8-41.8	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	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	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		

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TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.05			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	6/1/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring
	44.9			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	10/31/2017	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	5/9/2018	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
TW-12	44.0	927.6/929.03	33.8-43.8	Total and Dissolved As, Cu, Pb, and Zn	11/7/2018	site-wide groundwater monitoring
	45.1			Pesticides		
	btoc			Nitrate and Sulfate		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
	32.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
	32.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
	32.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-1B	30.0	913.5/915.95*	20-29	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	11/10/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.17			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	6/1/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.17			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.17			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	5/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.17			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	10/31/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.5			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	5/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.4			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-1B	30.0	913.5/915.95*	20-29	Total and Dissolved As, Cu, Pb, and Zn	11/7/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.5			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-22	27.0	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 28.9 btoc	894.23	17-27	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			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 28.9 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 29.2 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 29.2 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-22	27.0 29.2 btoc	894.23	17-27	Total and Dissolved As, Cu, Pb, and Zn	11/12/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0	895.05	18-28	Well Dry Not Sampled	November and May 2012	
MW-25	28.0 29.6 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-25	28.0	895.05	18-28	Well Dry Not Sampled	November 2013 and May 2014	
MW-25	28.0 29.8 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-25	28.0 29.8 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0 29.8 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0 29.8 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0 29.7 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0 29.7 btoc	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	5/10/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
			Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-25	28.0 29.8 btoc	895.05	18-28	Well Dry Not Sampled	11/8/2017	

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WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-25	28.0	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	5/17/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.8 btoc		Pesticides			
			Nitrate and Sulfate			
MW-25	28.0	895.05	18-28	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	29.8 btoc		Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
	20.7 btoc		Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
	20.7 btoc		Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
	20.7 btoc		Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
	20.9 btoc		Pesticides			
			Nitrate and Sulfate			
MW-26	19.0	904.99	9-19	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-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	20.9 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	20.9 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	21.1 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	21.1 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	21.3 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	21.3 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-26	19.0	904.99	9-19	Total and Dissolved As, Cu, Pb, and Zn	11/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	21.3 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-101	25.0	912.55	14.4-24.4	Total and Dissolved As, Cu, Pb, and Zn	11/12/2012	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-101	25.0	912.55	14.4-24.4	Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
	27.1 btoc		Pesticides			
			Nitrate and Sulfate			
MW-101	25.0	912.55	14.4-24.4	Total and Dissolved As, Cu, Pb, and Zn	11/12/2013	site-wide groundwater monitoring
	27.0 btoc		Pesticides			
			Nitrate and Sulfate			
MW-101	25.0	912.55	14.4-24.4	Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
	26.98 btoc		Pesticides			
			Nitrate and Sulfate			
MW-101	25.0	912.55	14.4-24.4	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	25.0	912.55	14.4-24.4	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-101	25.0	912.55	14.4-24.4	Total and Dissolved As, Cu, Pb, and Zn	11/10/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	26.87 btoc		Pesticides			
			Nitrate and Sulfate			

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MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	6/1/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	26.87			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	11/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	26.70			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	5/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	26.70			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	27.70			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	5/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	27.9			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-101	25.0	912.55	14.4-24.4	Site-Specific VOCs	11/7/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	27.9			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/13/2012	site-wide groundwater monitoring
				Total and Dissolved As, Cu, Pb, and Zn		
				Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	5/21/2013	site-wide groundwater monitoring
	32.7			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/12/2013	site-wide groundwater monitoring
	32.6			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	5/13/2014	site-wide groundwater monitoring
	32.6			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/11/2014	site-wide groundwater monitoring
	32.6			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	5/27/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.6			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.9			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.1			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.9			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	5/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	32.9			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	10/31/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.3			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	5/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.1			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-102	31.2	915.19	21.1-30.1	Site-Specific VOCs	11/7/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.2			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		
MW-104A	40.0	898.00	30.0-39.5	Site-Specific VOCs	11/14/2012	site-wide groundwater monitoring
				Total and Dissolved As, Cu, Pb, and Zn		
				Pesticides		
				Nitrate and Sulfate		
MW-104A	40.0	898.00	30.0-39.5	Site-Specific VOCs	5/28/2013	site-wide groundwater monitoring
	39.3			Total and Dissolved As, Cu, Pb, and Zn		
	btoc			Pesticides		
				Nitrate and Sulfate		

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WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
	39.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
	39.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-104A	40.0	898.00	30.0-39.5	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.6			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.35			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.35			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.6			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.6			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.7			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	5/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104A	40.0	898.00	30.0-39.5	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	39.6			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/14/2012	site-wide groundwater monitoring
				Pesticides		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
	82.5			Pesticides		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
	82.5			Pesticides		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	82.6			Pesticides		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.7			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.92			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.92			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	5/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-104D	80.0	901.59	69.5-79.5	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	82.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	5/21/2013	site-wide groundwater monitoring
	27.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
	27.1			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	5/13/2014	site-wide groundwater monitoring
	27.1			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring
	26.97			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring
	26.97			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/8/2016	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	5/4/2017	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/3/2017	site-wide groundwater monitoring
	27.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-105	25.0	904.55	14.8-23.8	Total and Dissolved As, Cu, Pb, and Zn	11/13/2018	site-wide groundwater monitoring
	27.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
	72.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
	72.7			Pesticides		
	btoc			Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
	72.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
	72.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-106D	70.0	878.6*	60-69	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	72.74			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.6*	60-69	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	72.74			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-106D	70.0	878.60	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	72.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.60	60-69	Total and Dissolved As, Cu, Pb, and Zn	5/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	72.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.60	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	72.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.60	60-69	Total and Dissolved As, Cu, Pb, and Zn	5/11/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	74.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-106D	70.0	878.60	60-69	Total and Dissolved As, Cu, Pb, and Zn	11/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	73.0			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	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	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
	49.9			Pesticides		
	btoc			Nitrate and Sulfate		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	49.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
	49.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
	49.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	49.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/12/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	49.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	6/6/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	49.8			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	49.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	49.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	50.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	5/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	50.0			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-107D	50.0	857.14	40.0-49.5	Total and Dissolved As, Cu, Pb, and Zn	11/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	50.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
	35.7			Pesticides		
	btoc			Nitrate and Sulfate		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
	35.6			Pesticides		
	btoc			Nitrate and Sulfate		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
				Pesticides		
	35.7			Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/12/2014	site-wide groundwater monitoring
	35.7			Pesticides		
	btoc			Nitrate and Sulfate		
MW-108	34.0	901.91	24-33	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.08			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.08			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.3			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	5/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.3			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.7			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.3			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-108	34.0	901.91	24-33	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	36.4			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	5/23/2013	site-wide groundwater monitoring
	33.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
	33.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	33.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
	33.3			Pesticides		
	btoc			Nitrate and Sulfate		
MW-109	31.5	895.90	21.5-30.5	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			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.3			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.3			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.5			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.5			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.5			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-109	31.5	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	33.6			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-109	31.5 33.6 btoc	895.90	21.5-30.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/14/2012	site-wide groundwater monitoring
MW-110	76.6	900.52	66.5-75.5	Total and Dissolved Fe and Mn Chloride and Nitrite Total and Dissolved Organic Carbon Total Alkalinity	1/21/2013	Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	4/16/2013	Monitor parameters for EHC injection pilot study 1st quarter sampling after injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	4/16/2013	Monitor parameters for EHC injection pilot study 1st quarter sampling after injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	7/16/2013	Monitor parameters for EHC injection pilot study 2nd quarter sampling after injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn Pesticides Chloride, Nitrate, Nitrite, and Sulfate Total and Dissolved Organic Carbon Total Alkalinity	10/9/2013	Monitor parameters for EHC injection pilot study 3rd quarter sampling after injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	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	Monitor parameters for EHC injection pilot study 4th quarter sampling after injection
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/15/2014	site-wide groundwater monitoring
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2014	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/29/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 79.6 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 79.6 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/5/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/11/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-110	76.6 78.9 btoc	900.52	66.5-75.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/9/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-111	43.2	900.10	33.2-42.2	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 Carbon			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/17/2013	Monitor parameters for EHC injection pilot study 1st quarter sampling after injection
	46.3 btoc		Pesticides			
			Chloride, Nitrate, Nitrite, and Sulfate			
			Total and Dissolved Organic Carbon			
MW-111	43.2	900.10	33.2-42.2	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
	46.3 btoc		Pesticides			
			Chloride, Nitrate, Nitrite, and Sulfate			
			Total and Dissolved Organic Carbon			
MW-111	43.2	900.10	33.2-42.2	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
	46.3 btoc		Pesticides			
			Chloride, Nitrate, Nitrite, and Sulfate			
			Total and Dissolved Organic Carbon			
MW-111	43.2	900.10	33.2-42.2	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
	46.3 btoc		Pesticides			
			Chloride, Nitrate, Nitrite, and Sulfate			
			Total and Dissolved Organic Carbon			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
	46.2 btoc		Pesticides			
			Nitrate and Sulfate			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
	46.2 btoc		Pesticides			
			Nitrate and Sulfate			
MW-111	43.2	900.10	33.2-42.2	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 Pesticides in GW
	46.2 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.2 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.2 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.4 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.4 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.6 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.5 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-111	43.2	900.10	33.2-42.2	Total and Dissolved As, Cu, Pb, and Zn	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.5 btoc		Pesticides			
			Nitrate and Sulfate			
			Site-Specific VOCs			
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/13/2012	site-wide groundwater monitoring
			Pesticides			
			Nitrate and Sulfate			
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	5/22/2013	site-wide groundwater monitoring
	25.1 btoc		Pesticides			
			Nitrate and Sulfate			
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
	25.1 btoc		Pesticides			
			Nitrate and Sulfate			
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	5/14/2014	site-wide groundwater monitoring
	25.2 btoc		Pesticides			
			Nitrate and Sulfate			

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/11/2014	site-wide groundwater monitoring
	25.2 btoc			Pesticides		
				Nitrate and Sulfate		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.2 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/10/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.2 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	6/2/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.2 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/9/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.3 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	5/2/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.3 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.3 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.56 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-112	22.0	904.90	12-21	Total and Dissolved As, Cu, Pb, and Zn	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	25.6 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
	43.7 btoc			Pesticides		
				Nitrate and Sulfate		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/15/2013	site-wide groundwater monitoring
	43.7 btoc			Pesticides		
				Nitrate and Sulfate		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	43.7 btoc			Pesticides		
				Nitrate and Sulfate		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/17/2014	site-wide groundwater monitoring
	43.9 btoc			Pesticides		
				Nitrate and Sulfate		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL Sampled for treatability study of Metals in GW
	43.9 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	43.8 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	43.8 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.1 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	5/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.1 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.1 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	5/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.1 btoc			Pesticides		
				Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-113	41.6	900.06	31.6-40.6	Total and Dissolved As, Cu, Pb, and Zn	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	44.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
	46			Pesticides		
	btoc			Nitrate and Sulfate		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/14/2013	site-wide groundwater monitoring
	45.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	5/15/2014	site-wide groundwater monitoring
	45.95			Pesticides		
	btoc			Nitrate and Sulfate		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/18/2014	site-wide groundwater monitoring
	45.95			Pesticides		
	btoc			Nitrate and Sulfate		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.95			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.93			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	45.93			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	5/8/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/6/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.2			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	5/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.2			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-114	43.8	892.96	33.8-42.8	Total and Dissolved As, Cu, Pb, and Zn	11/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	46.2			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	11/15/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	5/24/2013	site-wide groundwater monitoring
	21.9			Pesticides		
	btoc			Nitrate and Sulfate		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	11/13/2013	site-wide groundwater monitoring
	21.9			Pesticides		
	btoc			Nitrate and Sulfate		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	5/16/2014	site-wide groundwater monitoring
	21.9			Pesticides		
	btoc			Nitrate and Sulfate		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	11/14/2014	site-wide groundwater monitoring
	22.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	6/1/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	22.2			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	22			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-115	20.5	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	22			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-115	20.5 22.2 btoc	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/10/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-115	20.5 22.2 btoc	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/5/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-115	20.5 22.2 btoc	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/3/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-115	20.5 22.3 btoc	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/10/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-115	20.5 22.3 btoc	893.40	10.5-19.5	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/12/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6	905.62	21.6-30.6	Well had insufficient amount of water in casing and could not be sampled	11/15/2012	
MW-116	31.6 33.5 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/23/2013	site-wide groundwater monitoring
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/13/2013	site-wide groundwater monitoring
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/16/2014	site-wide groundwater monitoring
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/12/2014	site-wide groundwater monitoring
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/28/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/11/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.4 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	6/3/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.5 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/4/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.5 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/1/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.7 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	5/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-116	31.6 33.7 btoc	905.62	21.6-30.6	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate Site-Specific VOCs	11/8/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/15/2012	site-wide groundwater monitoring
MW-117	22.0 24.9 btoc	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/23/2013	site-wide groundwater monitoring
MW-117	22.0 24.9 btoc	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/15/2013	site-wide groundwater monitoring
MW-117	22.0 24.9 btoc	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	5/19/2014	site-wide groundwater monitoring
MW-117	22.0 25.2 btoc	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn Pesticides Nitrate and Sulfate	11/17/2014	site-wide groundwater monitoring

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	6/2/2015	site-wide groundwater monitoring
	25.2			Pesticides		
	btoc			Nitrate and Sulfate		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide groundwater monitoring
	24.98			Pesticides		
	btoc			Nitrate and Sulfate		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	6/3/2016	site-wide groundwater monitoring
	24.98			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	11/10/2016	site-wide groundwater monitoring
	25.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	5/5/2017	site-wide groundwater monitoring
	25.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	11/3/2017	site-wide groundwater monitoring
	25.3			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	5/10/2018	site-wide groundwater monitoring
	25.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-117	22.0	892.42	12-22	Total and Dissolved As, Cu, Pb, and Zn	11/13/2018	site-wide groundwater monitoring
	25.2			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	12/6/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
	54.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	54.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
	54.6			Pesticides		
	btoc			Nitrate and Sulfate		
MW-119	52.0	889.8/892.16	36.5-51.5	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	54.43			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	54.43			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	11/11/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	54.7			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	54.7			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	54.7			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	55.1			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-119	52.0	889.8/892.16	36.5-51.5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	55.1			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	12/7/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	5/28/2013	site-wide groundwater monitoring
	65.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	65.8			Pesticides		
	btoc			Nitrate and Sulfate		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide groundwater monitoring
	65.6			Pesticides		
	btoc			Nitrate and Sulfate		
MW-120	64.5	890.1/892.44	54-64	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	11/17/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	65.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	65.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	11/11/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	65.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	65.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	66.0			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	5/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	66.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-120	64.5	890.1/892.44	54-64	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	66.5			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	12/6/2012	site-wide groundwater monitoring
				Pesticides		
				Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	5/29/2013	site-wide groundwater monitoring
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/18/2013	site-wide groundwater monitoring
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	5/19/2014	site-wide groundwater monitoring
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/13/2014	site-wide groundwater monitoring
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	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			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	6/7/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.4			Pesticides		
	btoc			Nitrate and Sulfate		
				Site-Specific VOCs		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/11/2016	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.6 btoc			Pesticides		
				Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	5/9/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.6 btoc			Pesticides		
				Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/7/2017	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.6 btoc			Pesticides		
				Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	5/11/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.7 btoc			Pesticides		
				Nitrate and Sulfate		
MW-121	35.0	876.9/879.45	22-32	Total and Dissolved As, Cu, Pb, and Zn	11/14/2018	site-wide groundwater monitoring and M&J Solvents site plume impact on BFEL
	35.7 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/20/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/15/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
	42.2 btoc			Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
	42.2 btoc			Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	10/9/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
	42.2 btoc			Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/8/2014	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
	42.2 btoc			Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Fe, Pb, and Zn	5/19/2014	site-wide monitoring
	42.2 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	6/3/2015	site-wide monitoring
	42.2 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/16/2015	site-wide monitoring
	42.1 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide monitoring
	42.1 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/11/2016	site-wide monitoring
	42.1 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	5/10/2017	site-wide monitoring
	42.1 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/8/2017	site-wide monitoring
	42.2 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	5/14/2018	site-wide monitoring
	43.0 btoc			Pesticides		
				Nitrate and Sulfate		
OW-1	40.5	898.7/901.13	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide monitoring
	43.0 btoc			Pesticides		
				Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/20/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 2nd quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/8/2014	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Fe, Pb, and Zn	5/20/2014	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	6/3/2015	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Pesticides	11/13/2015	site-wide monitoring
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/14/2016	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	5/10/2017	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/8/2017	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-2	40.5	898.5/901.14	20-40	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/20/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study Base line sampling prior to EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	4/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 1st quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	7/16/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study
				Pesticides		
				Nitrate and Sulfate		
				Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	10/9/2013	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 3rd quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Fe, Pb, Mn, and Zn	1/8/2014	Observation well downgradient of injection points Monitor parameters for EHC injection pilot study 4th quarter sampling after EHC injection
				Pesticides		
				Chloride, Nitrate, Nitrite, and Sulfate		
				Total and Dissolved Organic Carbon		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	5/21/2014	site-wide monitoring
				Pesticides		
				Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

WELL SAMPLED	TOTAL BORING AND WELL DEPTH (FT, BGS)	GROUND SURFACE ELEVATION/ TOP OF CASING ELEVATION (FT, NGVD)	SCREENED INTERVAL (FT, BGS)	ANALYSES PER SAMPLE	SAMPLE DATE	PURPOSE
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	6/8/2015	site-wide monitoring
	42.9			Pesticides		
	btoc			Nitrate and Sulfate		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	11/13/2015	site-wide monitoring
	43.64			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	6/8/2016	site-wide monitoring
	43.64			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	11/14/2016	site-wide monitoring
	43.7			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	5/10/2017	site-wide monitoring
	43.7			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	11/8/2017	site-wide monitoring
	43.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	5/15/2018	site-wide monitoring
	43.87			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		
OW-3	41.0	899.1/901.47	20.5-40.5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2018	site-wide monitoring
	43.9			Pesticides		
	btoc			Nitrate and Sulfate Site-Specific VOCs		

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 = Manganese, Zn = zinc
 bgs = below ground surface
 na or N/A = not applicable
 ft = feet

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

SURFACE WATER LOCATION	SURFACE WATER SAMPLE IDENTIFICATION	ANALYSES	SAMPLE DATE	PURPOSE
MEDIA: SURFACE WATER				
SW-2010-5	SW-2010-5	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	Surface water quality monitoring
		Pesticides		
SW-2010-5	SW-2010-5	Nitrate and Sulfate	5/30/2013	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-5	SW-2010-5	Pesticides	11/19/2013	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-5	SW-2010-5	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
SW-2010-5	SW-2010-5	Nitrate and Sulfate	11/19/2014	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-5	SW-2010-5	Pesticides	6/4/2015	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-5	SW-2010-5	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
SW-2010-5	SW-2010-5	Nitrate and Sulfate	6/9/2016	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-5	SW-2010-5	Pesticides	11/15/2016	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-5	SW-2010-5	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
SW-2010-5	SW-2010-5	Nitrate and Sulfate	11/9/2017	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-5	SW-2010-5	Pesticides	5/18/2018	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-5	SW-2010-5	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
SW-2010-10	SW-2010-10	Nitrate and Sulfate	11/16/2012	Surface water quality monitoring
		Total and Dissolved As, Cu, Pb, and Zn		
SW-2010-10	SW-2010-10	Pesticides	5/30/2013	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-10	SW-2010-10	Dissolved As, Cu, Pb, and Zn	11/19/2013	Surface water quality monitoring
		Pesticides		
SW-2010-10	SW-2010-10	Nitrate and Sulfate	5/20/2014	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-10	SW-2010-10	Pesticides	11/19/2014	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-10	SW-2010-10	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
SW-2010-10	SW-2010-10	Nitrate and Sulfate	11/18/2015	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-10	SW-2010-10	Pesticides	6/9/2016	Surface water quality monitoring
		Nitrate and Sulfate		
SW-2010-10	SW-2010-10	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
SW-2010-10	SW-2010-10	Nitrate and Sulfate	5/11/2017	Surface water quality monitoring
		Hardness		
SW-2010-10	SW-2010-10	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
SW-2010-10	SW-2010-10	Nitrate and Sulfate	5/18/2018	Surface water quality monitoring
		Dissolved As, Cu, Pb, and Zn		
SW-2010-10	SW-2010-10	Pesticides	11/19/2018	Surface water quality monitoring
		Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

SURFACE WATER LOCATION	SURFACE WATER SAMPLE IDENTIFICATION	ANALYSES	SAMPLE DATE	PURPOSE
SW-2010-11	SW-2010-11	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	5/30/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/19/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-11	SW-2010-11	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	5/30/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/19/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-14	SW-2010-14	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	5/30/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/19/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

SURFACE WATER LOCATION	SURFACE WATER SAMPLE IDENTIFICATION	ANALYSES	SAMPLE DATE	PURPOSE
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-15	SW-2010-15	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Total and Dissolved As, Cu, Pb, and Zn	11/16/2012	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	5/30/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/19/2013	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW-2010-17	SW-2010-17	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
		Pesticides		
		Nitrate and Sulfate		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER COLLECTION DATA

SURFACE WATER LOCATION	SURFACE WATER SAMPLE IDENTIFICATION	ANALYSES	SAMPLE DATE	PURPOSE
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-20	SW2014-20	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-21	SW2014-21	Dissolved As, Cu, Pb, and Zn	5/20/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-21	SW2014-21	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-21	SW2014-21	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW2014-21	SW2014-21	Dissolved As, Cu, Pb, and Zn	11/18/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	6/9/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	11/15/2016	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	5/11/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	11/9/2017	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	5/18/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
SW-2014-21	SW-2014-21	Dissolved As, Cu, Pb, and Zn	11/19/2018	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-1	INFLOW-1	Dissolved As, Cu, Pb, and Zn	3/31/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-1	INFLOW-1	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-1	INFLOW-1	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring Sampled for treatability study of Metals and Pesticides in surface water
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-2	INFLOW-2	Dissolved As, Cu, Pb, and Zn	3/31/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-2	INFLOW-2	Dissolved As, Cu, Pb, and Zn	11/19/2014	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		
INFLOW-2	INFLOW-2	Dissolved As, Cu, Pb, and Zn	6/4/2015	Surface water quality monitoring
		Pesticides		
		Nitrate and Sulfate		
		Hardness		

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 = Manganese, Zn = zinc
 bgs = below ground surface
 na or N/A = not applicable
 ft = feet

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)		Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water		Ground-Water Elevation on		Depth to Ground Water		Ground-Water Elevation on	
					on 1/7/1998 (ft., btoc)	1/7/1998 (ft., NGVD)	on 5/29/1998 (ft., btoc)	5/29/1998 (ft., NGVD)	on 1/21/2000 (ft., btoc)	1/21/2000 (ft., NGVD)	on 11/26/2002 (ft., btoc)	11/26/2002 (ft., NGVD)
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								
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 Surface Water on 1/7/1998 (ft.)	Surface Water Elevation on 1/7/1998 (ft., NGVD)	Depth to Surface Water on 5/29/1998 (ft.)	Surface Water Elevation on 5/29/1998 (ft., NGVD)	Depth to Surface Water (ft.)	Surface Water Elevation (ft., NGVD)	Depth to Surface Water (ft.)	Surface Water Elevation (ft., NGVD)
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 ⁽²⁾ [Staff Gauge #2]	NA			858.90	7.9	851.00	8.10	850.80	1.03	857.87	8.65	850.25
Gauge at well MW-119/MW-120 ⁽³⁾ [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		Ground-Water Elevation (ft., NGVD)		Depth to Ground Water		Ground-Water Elevation (ft., NGVD)		Depth to Ground Water		Ground-Water Elevation (ft., NGVD)	
					(ft., btoc) 8/20/2007	(ft., btoc) 8/20/2007	(ft., btoc) 9/20/2007	(ft., btoc) 9/20/2007	(ft., btoc) 7/29/2010	(ft., btoc) 7/29/2010	(ft., btoc) 9/14/2010	(ft., btoc) 9/14/2010				
MW-18	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												
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 Surface Water (ft., btoc) 9/20/2007	Surface Water Elevation (ft., NGVD) 9/20/2007	Depth to Surface Water (ft., btoc) 7/29/2010	Surface Water Elevation (ft., NGVD) 7/29/2010	Depth to Surface Water (ft., btoc) 9/14/2010	Surface Water Elevation (ft., NGVD) 9/14/2010				
Upstream Staff Gauge@ MW-106D/MW-121 ⁽¹⁾ [Staff Gauge #1]	NA		un-named stream on CSX	865.80	2.12	860.91	2.13	860.90	not measured		2.1	860.9				
Downstream Staff Gauge at railroad culvert ⁽²⁾ [Staff Gauge #2]	NA			858.90	8.10	850.52	7.89	850.73	not measured		7.8	850.8				
Downstream Staff Gauge at well MW-119/MW-120 ⁽³⁾ [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		Depth to Ground-Water		Depth to Ground-Water		Depth to Ground-Water	
					(ft., btoc) May 30-31, 2012	Elevation (ft., NGVD) June 2012	(ft., btoc) 12/7/2012	Elevation (ft., NGVD) 12/7/2012	(ft., btoc) 5/20/2013 & 5/30/2013 ⁽²⁾	Elevation (ft., NGVD) 5/20/2013 & 5/30/2013 ⁽²⁾	(ft., btoc) 11/11-12/2013	Elevation (ft., NGVD) 11/11-12/2013
MW-18	893.5	- 884.5	fine sandy silt to silty fine sand	915.95	not measured	29.65	886.30	23.93	892.02	24.97	890.98	
MW-21	885.9	- 875.9	clayey silt to silty clay	905.70	not measured	dry		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	19.71	874.52	
MW-24	874.8	- 864.8	silty clay to clayey silt	897.31	not measured	damaged		damaged		damaged		
MW-25	875.1	- 865.1	silty clay to clayey silt	895.05	not measured	dry		27.87	867.18	29.20	865.85	
MW-26	893.5	- 883.5	clayey silt	904.99	not measured	15.48	889.51	9.30	895.69	10.76	894.23	
DW-1B	843.8	- 833.8	bedrock	915.50	not measured	not measured		39.85	875.65	not measured-could not locate		
MW-101	895.6	- 885.6	silty fine sand	912.55	not measured	20.21	892.34	14.68	897.87	15.95	896.60	
MW-102	892.4	- 883.4	silty fine sand and PWR	915.19	not measured	26.46	888.73	22.59	892.60	23.95	891.24	
MW-104A	868.3	- 858.8	silty very fine sand	898.00	not measured	17.35	880.65	12.82	885.18	13.53	884.47	
MW-104D	829.9	- 819.9	bedrock	901.59	not measured	20.91	880.68	16.52	885.07	17.21	884.38	
MW-105	887.7	- 878.7	silty fine to medium sand	904.55	not measured	17.11	887.44	12.15	892.40	14.65	889.90	
MW-106D	816.1	- 807.1	bedrock	878.60	not measured	28.49	850.11	26.85	851.75	26.97	851.63	
MW-107D	817.5	- 808.0	bedrock	857.14	not measured	24.23	832.91	20.49	836.65	21.54	835.60	
MW-108	875.8	- 866.8	silty fine sand	901.91	not measured	25.24	876.67	18.91	883.00	20.85	881.06	
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	15.76	880.14	
MW-110	831.9	- 822.9	bedrock	900.52	not measured	31.63	868.89	26.74	873.78	27.59	872.93	
MW-111	864.3	- 855.3	silty sand and PWR	900.10	not measured	24.53	875.57	18.74	881.36	20.29	879.81	
MW-112	890.7	- 881.7	silty very fine sand	904.90	not measured	20.12	884.78	12.43	892.47	15.23	889.67	
MW-113	866.2	- 857.2	sandy clayey silt	900.06	not measured	32.19	867.87	28.53	871.53	29.64	870.42	
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	26.74	866.22	
MW-115	880.5	- 871.5	silty sand with concrete fragments (fill)	893.40	not measured	18.46	874.94	13.22	880.18	14.85	878.55	
MW-116	881.8	- 872.8	fine sand	905.62	not measured	32.83	872.79	29.25	876.37	29.41	876.21	
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	13.16	879.26	
MW-119	853.3	- 838.3	PWR and bedrock	892.16	not installed	42.28	849.88	42.19	849.97	41.51	850.65	
MW-120	836.1	- 826.1	bedrock	892.44	not installed	45.47	846.97	45.19	847.25	44.75	847.69	
MW-121	854.9	- 844.9	bedrock	879.45	not installed	17.66	861.79	16.35	863.10	16.69	862.76	
TW-1	878.3	- 868.3	sandy silt	893.00	16.00	877.00	17.44	875.56	13.86	879.14	15.05	877.95
TW-2	878.5	- 868.5	sandy silt	897.89	22.44	875.45	24.90	872.99	20.48	877.41	21.71	876.18
TW-3	867.5	- 857.5	sandy silt	897.44	26.85	870.59	29.85	867.59	25.21	872.23	25.89	871.55
TW-4	875.4	- 865.4	sandy silt	899.36	27.70	871.66	30.65	868.71	27.14	872.22	26.95	872.41
TW-5	869.0	- 859.0	silty sand	891.90	22.57	869.33	25.28	866.62	21.61	870.29	21.71	870.19
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	24.17	884.17
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	20.01	879.21
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	18.85	881.51
TW-9	876.3	- 866.3	silt to sandy silt	901.56	21.49	880.07	24.68	876.88	18.2	883.36	20.15	881.41
TW-10	876.4	- 866.4	sandy silt	896.56	18.35	878.21	21.42	875.14	15.36	881.20	17.45	879.11
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	29.58	888.50
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	32.99	896.04
OW-1	878.7	- 858.7	silt to partially weathered rock silt with quartz veins to partially weathered rock	901.13	not installed				19.97	881.16	19.80	881.33
OW-2	878.5	- 858.5	silt with quartz veins to partially weathered rock	901.14	not installed				20.47	880.67	20.37	880.77
OW-3	878.6	- 858.6	silt with quartz veins to partially weathered rock	901.47	not installed				20.83	880.64	20.7	880.77
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	Depth to Surface Water (ft., btoc) 11/19/2013	Surface Water Elevation (ft., NGVD) 11/19/2013
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	3.86	861.94	
Downstream Staff Gauge at railroad culvert ⁽²⁾ [Staff Gauge #2]	NA			858.90	not measured	7.96	850.66	8.05	850.85	7.90	851.00	
Gauge at well MW-119/MW-120 ⁽³⁾ [Staff Gauge #3]	NA			841.55	not installed				2.5	839.05	2.21	839.34
Downstream Staff Gauge at well MW-107D ⁽¹⁾ [Staff Gauge #4]	NA			837.66	not installed				1.64	836.02	1.15	836.51

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)		Lithology Screened	Top of Casing Elevation (ft., NGVD)	Depth to Ground Water		Ground-Water Elevation		Depth to Ground Water		Ground-Water Elevation	
					(ft., btoc) 5/12/2014	(ft., NGVD) 5/12/2014	(ft., btoc) 11/10/2014	(ft., NGVD) 11/10/2014	(ft., btoc) 5/27/2015	(ft., NGVD) 5/27/2015	(ft., btoc) 11/9/2015	(ft., NGVD) 11/9/2015
MW-18	893.5	- 884.5	fine sandy silt to silty fine sand	915.95	22.40	893.55	26.37	889.58	22.96	892.99	23.88	892.07
MW-21	885.9	- 875.9	clayey silt to silty clay	905.70	23.78	881.92	dry		26.01	879.69	dry	
MW-22	875.3	- 865.3	silty clay and clayey silt	894.23	17.40	876.83	20.40	873.83	19.10	875.13	18.33	875.90
MW-24	874.8	- 864.8	silty clay to clayey silt	897.31	damaged		damaged		damaged		destroyed	
MW-25	875.1	- 865.1	silty clay to clayey silt	895.05	could not locate-not measured		28.35	866.70	26.54	868.51	27.99	867.06
MW-26	893.5	- 883.5	clayey silt	904.99	8.13	896.86	12.42	892.57	9.94	895.05	9.69	895.30
DW-18	843.8	- 833.8	bedrock	915.50	could not locate-not measured		40.04	875.46	38.16	877.34	39.35	876.15
MW-101	895.6	- 885.6	silty fine sand	912.55	13.75	898.80	17.42	895.13	15.23	897.32	14.78	897.77
MW-102	892.4	- 883.4	silty fine sand and PWR	915.19	22.03	893.16	25.08	890.11	23.23	891.96	23.63	891.56
MW-104A	868.3	- 858.8	silty very fine sand	898.00	12.08	885.92	14.85	883.15	13.24	884.76	13.31	884.69
MW-104D	829.9	- 819.9	bedrock	901.59	15.79	885.80	18.76	882.83	16.94	884.65	16.93	884.66
MW-105	887.7	- 878.7	silty fine to medium sand	904.55	11.63	892.92	15.38	889.17	12.81	891.74	13.53	891.02
MW-106D	816.1	- 807.1	bedrock	878.60	26.07	852.53	27.42	851.18	25.27	853.33	25.18	853.42
MW-107D	817.5	- 808.0	bedrock	857.14	19.74	837.40	22.48	834.66	21.62	835.52	21.73	835.41
MW-108	875.8	- 866.8	silty fine sand	901.91	18.03	883.88	22.09	879.82	19.30	882.61	20.49	881.42
MW-109	872.1	- 863.1	silty fine sand with brick fragments (fill)	895.90	12.88	883.02	17.11	878.79	14.25	881.65	14.70	881.20
MW-110	831.9	- 822.9	bedrock	900.52	25.32	875.20	28.76	871.76	26.84	873.68	27.58	872.94
MW-111	864.3	- 855.3	silty sand and PWR	900.10	17.52	882.58	21.46	878.64	18.86	881.24	20.58	879.52
MW-112	890.7	- 881.7	silty very fine sand	904.90	10.98	893.92	17.16	887.74	14.01	890.89	14.48	890.42
MW-113	866.2	- 857.2	sandy clayey silt	900.06	27.24	872.82	30.30	869.76	27.68	872.38	27.83	872.23
MW-114	856.8	- 847.8	silty clayey fine sand to silty fine sand	892.96	24.45	868.51	27.06	865.90	25.18	867.78	25.75	867.21
MW-115	880.5	- 871.5	silty sand with concrete fragments (fill)	893.40	12.11	881.29	15.91	877.49	13.30	880.10	14.14	879.26
MW-116	881.8	- 872.8	fine sand	905.62	25.33	880.29	29.95	875.67	29.05	876.57	30.84	874.78
MW-117	878.1	- 868.1	very sandy silt to very silty fine sand	892.42	10.91	881.51	13.81	878.61	12.08	880.34	13.09	879.33
MW-119	853.3	- 838.3	PWR and bedrock	892.16	41.21	850.95	42.68	849.48	42.31	849.85	41.60	850.56
MW-120	836.1	- 826.1	bedrock	892.44	44.45	847.99	45.12	847.32	44.62	847.82	44.08	848.36
MW-121	854.9	- 844.9	bedrock	879.45	16.31	863.14	17.19	862.26	16.38	863.07	14.41	865.04
TW-1	878.3	- 868.3	sandy silt	893.00	13.05	879.95	15.69	877.31	14.93	878.07	14.13	878.87
TW-2	878.5	- 868.5	sandy silt	897.89	18.93	878.96	22.48	875.41	21.10	876.79	21.30	876.59
TW-3	867.5	- 857.5	sandy silt	897.44	22.52	874.92	26.51	870.93	24.61	872.83	25.45	871.99
TW-4	875.4	- 865.4	sandy silt	899.36	23.61	875.75	27.05	872.31	26.25	873.11	27.42	871.94
TW-5	869.0	- 859.0	silty sand	891.90	18.06	873.84	21.91	869.99	22.03	869.87	21.89	870.01
TW-6	878.1	- 868.1	silty sand to sandy silt	908.34	20.50	887.84	25.53	882.81	22.79	885.55	24.91	883.43
TW-7	877.1	- 867.1	clay to silty fine sand	899.22	16.63	882.59	21.15	878.07	18.66	880.56	20.51	878.71
TW-8	880.3	- 870.3	silty sand to sandy silt	900.36	15.68	884.68	20.03	880.33	17.42	882.94	19.37	880.99
TW-9	876.3	- 866.3	silt to sandy silt	901.56	16.94	884.62	21.39	880.17	18.66	882.90	20.33	881.23
TW-10	876.4	- 866.4	sandy silt	896.56	14.19	882.37	18.62	877.94	16.79	879.77	17.40	879.16
TW-11	882.9	- 872.9	sandy silty with rock fragments	918.08	26.93	891.15	30.41	887.67	29.77	888.31	30.84	887.24
TW-12	893.8	- 883.8	silty sand with quartz fragments	929.03	30.75	898.28	34.25	894.78	33.65	895.38	34.13	894.90
OW-1	878.7	- 858.7	silt to partially weathered rock	901.13	16.98	884.15	21.20	879.93	18.66	882.47	20.45	880.68
OW-2	878.5	- 858.5	silt with quartz veins to partially weathered rock	901.14	17.52	883.62	21.70	879.44	19.10	882.04	20.80	880.34
OW-3	878.6	- 858.6	silt with quartz veins to partially weathered rock	901.47	17.74	883.73	22.00	879.47	19.39	882.08	21.32	880.15
Surface Water Location	Screened Interval (ft NGVD)		Lithology Screened	Top of Staff Gauge Elevation (ft., NGVD)	Depth to Surface Water (ft., btoc) 5/20/2014	Surface Water Elevation (ft., NGVD) 5/20/2014	Depth to Surface Water (ft., btoc) 11/19/2014	Surface Water Elevation (ft., NGVD) 11/19/2014	Depth to Surface Water (ft., btoc) 5/29/2015	Surface Water Elevation (ft., NGVD) 5/29/2015	Depth to Surface Water (ft., btoc) 11/9/2015	Surface Water Elevation (ft., NGVD) 11/9/2015
Upstream Staff Gauge@ MW-106D/MW-121 ⁽¹⁾ [Staff Gauge #1]	NA		un-named stream on CSX	865.80	3.06	862.74	3.14	862.66	3.05	862.75	3.06	862.74
Downstream Staff Gauge at railroad culvert ⁽²⁾ [Staff Gauge #2]	NA			858.90	8.03	850.87	8.02	850.88	8.07	850.83	7.59	851.31
Downstream Staff Gauge at well MW-119/MW-120 ⁽³⁾ [Staff Gauge #3]	NA			841.55	2.35	839.20	2.65	838.90	1.78	839.77	1.41	840.14
Downstream Staff Gauge at well MW-107D ⁽¹⁾ [Staff Gauge #4]	NA			837.66	1.25	836.41	1.52	836.14	1.44	836.22	1.31	836.35

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)		Lithology Screened	Top of Casing Elevation (ft, NGVD)	Ground-Water Elevation (ft, NGVD)		Ground-Water Elevation (ft, NGVD)		Ground-Water Elevation (ft, NGVD)		Ground-Water Elevation (ft, NGVD)	
					Depth to Ground Water (ft, btoc)	5/31/2016	Depth to Ground Water (ft, btoc)	11/7/2016	Depth to Ground Water (ft, btoc)	5/1/2017	Depth to Ground Water (ft, btoc)	10/30/2017
MW-18	893.5	- 884.5	fine sandy silt to silty fine sand	915.95	22.55	893.40	26.62	889.33	24.94	891.01	25.40	890.55
MW-21	885.9	- 875.9	clayey silt to silty clay	905.70	23.61	882.09	dry		25.75	879.95	dry	
MW-22	875.3	- 865.3	silty clay and clayey silt	894.23	17.39	876.84	21.23	873.00	18.82	875.41	19.96	874.27
MW-24	874.8	- 864.8	silty clay to clayey silt	897.31	destroyed		destroyed		destroyed		destroyed	
MW-25	875.1	- 865.1	silty clay to clayey silt	895.05	24.60	870.45	28.53	866.52	28.25	866.80	29.08	865.97
MW-26	893.5	- 883.5	clayey silt	904.99	8.84	896.15	13.57	891.42	10.75	894.24	11.88	893.11
DW-18	843.8	- 833.8	bedrock	915.50	34.80	880.70	40.47	875.03	40.76	874.74	41.28	874.22
MW-101	895.6	- 885.6	silty fine sand	912.55	14.31	898.24	18.21	894.34	16.01	896.54	16.87	895.68
MW-102	892.4	- 883.4	silty fine sand and PWR	915.19	22.69	892.50	26.06	889.13	23.85	891.34	24.58	890.61
MW-104A	868.3	- 858.8	silty very fine sand	898.00	12.63	885.37	16.00	882.00	14.92	883.08	14.37	883.63
MW-104D	829.9	- 819.9	bedrock	901.59	16.53	885.06	19.67	881.92	18.26	883.33	17.94	883.65
MW-105	887.7	- 878.7	silty fine to medium sand	904.55	12.45	892.10	15.75	888.80	13.43	891.12	14.75	889.80
MW-106D	816.1	- 807.1	bedrock	878.60	25.60	853.00	27.16	851.44	27.09	851.51	34.35	844.25
MW-107D	817.5	- 808.0	bedrock	857.14	20.34	836.80	23.35	833.79	20.63	836.51	22.64	834.50
MW-108	875.8	- 866.8	silty fine sand	901.91	18.58	883.33	22.13	879.78	20.42	881.49	21.67	880.24
MW-109	872.1	- 863.1	silty fine sand with brick fragments (fill)	895.90	13.32	882.58	17.75	878.15	15.23	880.67	16.75	879.15
MW-110	831.9	- 822.9	bedrock	900.52	25.80	874.72	29.49	871.03	28.74	871.78	30.59	869.93
MW-111	864.3	- 855.3	silty sand and PWR	900.10	17.85	882.25	22.08	878.02	20.06	880.04	21.18	878.92
MW-112	890.7	- 881.7	silty very fine sand	904.90	12.52	892.38	18.36	886.54	15.12	889.78	16.66	888.24
MW-113	866.2	- 857.2	sandy clayey silt	900.06	27.34	872.72	30.80	869.26	28.78	871.28	29.95	870.11
MW-114	856.8	- 847.8	silty clayey fine sand to silty fine sand	892.96	23.96	869.00	27.05	865.91	26.51	866.45	22.17	870.79
MW-115	880.5	- 871.5	silty sand with concrete fragments (fill)	893.40	12.66	880.74	16.58	876.82	14.33	879.07	15.39	878.01
MW-116	881.8	- 872.8	fine sand	905.62	23.57	882.05	30.16	875.46	31.05	874.57	31.28	874.34
MW-117	878.1	- 868.1	very sandy silt to very silty fine sand	892.42	10.98	881.44	14.42	878.00	12.94	879.48	13.71	878.71
MW-119	853.3	- 838.3	PWR and bedrock	892.16	41.13	851.03	42.78	849.38	42.66	849.50	42.72	849.44
MW-120	836.1	- 826.1	bedrock	892.44	44.20	848.24	45.30	847.14	45.21	847.23	45.24	847.20
MW-121	854.9	- 844.9	bedrock	879.45	16.80	862.65	17.90	861.55	16.46	862.99	17.43	862.02
TW-1	878.3	- 868.3	sandy silt	893.00	13.23	879.77	16.51	876.49	14.33	878.67	15.15	877.85
TW-2	878.5	- 868.5	sandy silt	897.89	18.94	878.95	23.35	874.54	20.91	876.98	22.13	875.76
TW-3	867.5	- 857.5	sandy silt	897.44	22.01	875.43	27.12	870.32	25.51	871.93	26.79	870.65
TW-4	875.4	- 865.4	sandy silt	899.36	21.96	877.40	27.28	872.08	27.65	871.71	28.49	870.87
TW-5	869.0	- 859.0	silty sand	891.90	20.11	871.79	22.00	869.90	22.23	869.67	22.94	868.96
TW-6	878.1	- 868.1	silty sand to sandy silt	908.34	20.63	887.71	26.33	882.01	24.60	883.74	25.44	882.90
TW-7	877.1	- 867.1	clay to silty fine sand	899.22	16.63	882.59	21.89	877.33	20.51	878.71	21.34	877.88
TW-8	880.3	- 870.3	silty sand to sandy silt	900.36	16.09	884.27	20.85	879.51	18.80	881.56	19.95	880.41
TW-9	876.3	- 866.3	silt to sandy silt	901.56	17.63	883.93	22.20	879.36	19.90	881.66	21.14	880.42
TW-10	876.4	- 866.4	sandy silt	896.56	16.02	881.54	19.34	877.22	16.90	879.66	18.30	878.26
TW-11	882.9	- 872.9	sandy silty with rock fragments	918.08	25.02	893.06	31.12	886.96	30.20	887.88	31.13	886.95
TW-12	893.8	- 883.8	silty sand with quartz fragments	929.03	29.52	899.51	35.00	894.03	34.27	894.76	34.65	894.38
OW-1	878.7	- 858.7	silt to partially weathered rock silt with quartz veins to partially weathered rock	901.13	17.41	883.72	21.97	879.16	19.95	881.18	21.13	880.00
OW-2	878.5	- 858.5	silt with quartz veins to partially weathered rock	901.14	17.88	883.26	22.45	878.69	20.38	880.76	21.49	879.65
OW-3	878.6	- 858.6	silt with quartz veins to partially weathered rock	901.47	18.12	883.35	22.81	878.66	20.75	880.72	21.87	879.60
Surface Water Location	Screened Interval (ft NGVD)		Lithology Screened	Top of Staff Gauge Elevation (ft, NGVD)	Depth to Surface Water (ft, btoc)	Surface Water Elevation (ft, NGVD)	Depth to Surface Water (ft, btoc)	Surface Water Elevation (ft, NGVD)	Depth to Surface Water (ft, btoc)	Surface Water Elevation (ft, NGVD)	Depth to Surface Water (ft, btoc)	Surface Water Elevation (ft, NGVD)
Upstream Staff Gauge@ MW-106D/MW-121 ⁽¹⁾ [Staff Gauge #1]	NA		un-named stream on CSX	865.80	3.08	862.72	3.06	862.74	3.15	862.65	3.11	862.69
Downstream Staff Gauge at railroad culvert ⁽²⁾ [Staff Gauge #2]	NA			858.90	8.02	850.88	7.80	851.10	8.00	850.90	7.98	850.92
Downstream Staff Gauge at well MW-119/MW-120 ⁽³⁾ [Staff Gauge #3]	NA			841.55	1.88	839.67	1.75	839.80	1.91	839.64	1.98	839.57
Downstream Staff Gauge at well MW-107D ⁽¹⁾ [Staff Gauge #4]	NA			837.66	1.43	836.23	1.31	836.35	1.60	836.06	1.60	836.06

TABLE 2: SUMMARY OF GROUNDWATER ELEVATIONS

Well Number	Screened Interval (ft NGVD)		Lithology Screened	Top of Casing Elevation (ft., NGVD)	Ground-Water Elevation (ft., NGVD)		Ground-Water Elevation (ft., NGVD)	
					5/7/2018	5/7/2018	11/6/2018	11/6/2018
MW-1B	893.5	- 884.5	fine sandy silt to silty fine sand	915.95	23.57	892.38	25.20	890.75
MW-21	885.9	- 875.9	clayey silt to silty clay	905.70	24.97	880.73	dry	
MW-22	875.3	- 865.3	silty clay and clayey silt	894.23	18.09	876.14	19.44	874.79
MW-24	874.8	- 864.8	silty clay to clayey silt	897.31	destroyed		destroyed	
MW-25	875.1	- 865.1	silty clay to clayey silt	895.05	27.19	867.86	28.54	866.51
MW-26	893.5	- 883.5	clayey silt	904.99	9.45	895.54	11.02	893.97
DW-18	843.8	- 833.8	bedrock	915.50	39.46	876.04	40.53	874.97
MW-101	895.6	- 885.6	silty fine sand	912.55	14.83	897.72	16.20	896.35
MW-102	892.4	- 883.4	silty fine sand and PWR	915.19	22.74	892.45	23.99	891.20
MW-104A	868.3	- 858.3	silty very fine sand	898.00	13.26	884.74	13.66	884.34
MW-104D	829.9	- 819.9	bedrock	901.59	16.59	885.00	17.46	884.13
MW-105	887.7	- 878.7	silty fine to medium sand	904.55	11.90	892.65	14.63	889.92
MW-106D	816.1	- 807.1	bedrock	878.60	34.83	843.77	34.94	843.66
MW-107D	817.5	- 808.0	bedrock	857.14	20.67	836.47	23.23	833.91
MW-108	875.8	- 866.8	silty fine sand	901.91	18.95	882.96	21.07	880.84
MW-109	872.1	- 863.1	silty fine sand with brick fragments (fill)	895.90	13.86	882.04	15.96	879.94
MW-110	831.9	- 822.9	bedrock	900.52	28.70	871.82	30.13	870.39
MW-111	864.3	- 855.3	silty sand and PWR	900.10	18.80	881.30	20.57	879.53
MW-112	890.7	- 881.7	silty very fine sand	904.90	13.41	891.49	15.76	889.14
MW-113	866.2	- 857.2	sandy clayey silt	900.06	28.39	871.67	29.78	870.28
MW-114	856.8	- 847.8	silty clayey fine sand to silty fine sand	892.96	25.41	867.55	26.69	866.27
MW-115	880.5	- 871.5	silty sand with concrete fragments (fill)	893.40	13.03	880.37	15.08	878.32
MW-116	881.8	- 872.8	fine sand	905.62	28.83	876.79	30.30	875.32
MW-117	878.1	- 868.1	very sandy silt to very silty fine sand	892.42	12.01	880.41	13.40	879.02
MW-119	853.3	- 838.3	PWR and bedrock	892.16	42.81	849.35	42.68	849.48
MW-120	836.1	- 826.1	bedrock	892.44	45.34	847.10	45.28	847.16
MW-121	854.9	- 844.9	bedrock	879.45	16.60	862.85	17.28	862.17
TW-1	878.3	- 868.3	sandy silt	893.00	13.84	879.16	14.63	878.37
TW-2	878.5	- 868.5	sandy silt	897.89	20.03	877.86	21.54	876.35
TW-3	867.5	- 857.5	sandy silt	897.44	24.68	872.76	26.55	870.89
TW-4	875.4	- 865.4	sandy silt	899.36	26.39	872.97	27.69	871.67
TW-5	869.0	- 859.0	silty sand	891.90	20.57	871.33	22.12	869.78
TW-6	878.1	- 868.1	silty sand to sandy silt	908.34	22.69	885.65	24.63	883.71
TW-7	877.1	- 867.1	clay to silty fine sand	899.22	18.72	880.50	20.55	878.67
TW-8	880.3	- 870.3	silty sand to sandy silt	900.36	17.23	883.13	19.14	881.22
TW-9	876.3	- 866.3	silt to sandy silt	901.56	18.33	883.23	20.47	881.09
TW-10	876.4	- 866.4	sandy silt	896.56	15.46	881.10	17.84	878.72
TW-11	882.9	- 872.9	sandy silty with rock fragments	918.08	29.05	889.03	30.43	887.65
TW-12	893.8	- 883.8	silty sand with quartz fragments	929.03	33.16	895.87	34.03	895.00
OW-1	878.7	- 858.7	silt to partially weathered rock silt with quartz veins to partially weathered rock	901.13	18.50	882.63	20.37	880.76
OW-2	878.5	- 858.5	silt with quartz veins to partially weathered rock	901.14	18.87	882.27	20.75	880.39
OW-3	878.6	- 858.6	silt with quartz veins to partially weathered rock	901.47	19.20	882.27	21.11	880.36

Surface Water Location	Screened Interval (ft NGVD)		Lithology Screened	Top of Staff Gauge Elevation (ft., NGVD)	Surface Water Elevation (ft., NGVD)		Surface Water Elevation (ft., NGVD)	
					5/8/2018	5/8/2018	11/6/2018	11/6/2018
Upstream Staff Gauge@ MW-106D/MW-121 ⁽¹⁾ [Staff Gauge #1]	NA		un-named stream on CSX	865.80	3.07	862.73	3.08	862.72
Downstream Staff Gauge at railroad culvert ⁽²⁾ [Staff Gauge #2]	NA			858.90	7.94	850.96	7.87	851.03
Gauge at well MW-119/MW-120 ⁽²⁾ [Staff Gauge #3]	NA			841.55	1.93	839.62	could not locate gauge	
Downstream Staff Gauge at well MW-107D ⁽²⁾ [Staff Gauge #4]	NA			837.66	1.46	836.20	1.58	836.08

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.
 (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: AS 11/29/2018

Checked by: JO 11/30/2018

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations Published by EPD 10/12/2018	Type 1 RRS Concentrations	TW-1 11/12/2018	TW-1 5/9/2018	TW-1 11/1/2017	TW-1 5/3/2017	TW-1 11/9/2016	TW-1 6/2/2016	TW-1 11/11/2015	TW-1 5/28/2015	TW-1 11/12/2014	TW-1 5/14/2014	TW-1 11/13/2013	TW-1 05/29/2013	TW-1 05/30/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Copper	1.3	1.3	0.00355	0.00272	< 0.002	< 0.002	0.00259	< 0.002	0.00499	0.00288	0.00495	0.00312	0.00247	0.0132	< 0.002
Total Lead	0.015	0.015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00302	0.00193	0.00102	0.00119	< 0.001	0.0118	< 0.001
Total Zinc	6.0	2.0	0.341	0.303 J	0.296	0.487	0.303	0.34	0.119	0.224	0.319	0.300	0.361	0.373	0.178
Dissolved Arsenic	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Dissolved Copper	1.3	1.3	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.0027	< 0.002	< 0.002	< 0.002
Dissolved Lead	0.015	0.015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Zinc	6.0	2.0	0.33	0.359 J	0.276	0.267	0.282	0.265	0.105	0.202	0.283	0.270	0.318	0.333	0.180
Total of Total Metals Concentrations			0.34455	0.30572	0.296	0.487	0.30559	0.34	0.12701	0.22881	0.32497	0.30431	0.36347	0.398	0.178
Total of Dissolved Metals Concentrations			0.33	0.359	0.276	0.267	0.282	0.265	0.105	0.202	0.2857	0.27	0.318	0.333	0.180
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	0.29	< 0.25
Sulfate	250 (NR)	250 (NR)	51	60	51	59	57	62	31	60	46	63	54	61	60
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	0.00073	0.0006	0.00057	0.00083	0.0007	0.0012	0.0014	0.002	0.00087	0.00054	0.00040	0.00059	0.00042
4,4'-DDE	0.0005	0.0001	0.00076	0.0006	0.00071	0.0008	0.0008	0.00072	0.0014	0.0019	0.0031	0.0019	0.0013	0.0047	0.00050
4,4'-DDT	0.0023	0.0001	0.00041	0.00038	0.00048	0.00045	0.00042	0.00015	0.0017	0.0017	0.0052	0.0043	0.0025	0.0037	0.00049
alpha-BHC	0.00007	0.00005(DL)	0.00012	0.00032	0.00011	0.00037	< 0.0005	0.00033	0.0015	0.00053	0.0002	0.0015	0.00041	0.00043	0.0037
alpha-Chlordane	0.002	0.002	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
beta-BHC	0.0003	0.00005(DL)	0.0012	0.0039	0.00067	0.0025	0.00033	0.0042	0.033	0.0061	0.0041	0.018	0.0081	0.0200	0.0087
delta-BHC	0.0003	0.00005(DL)	0.00016	0.00027	0.00011	0.0003	0.00061	0.00031	0.0014	0.00056	0.00023	0.0016	0.00056	0.0013	0.00047
Dieldrin	0.00002	0.0001(DL)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.00016	< 0.0001	< 0.0001	< 0.0001	0.0017	< 0.0001	< 0.0001
gamma-BHC	0.0002	0.0002	0.0001	0.00024	< 0.00005	0.00037	< 0.00005	0.0003	0.00074	0.00033	0.00016	0.00076	0.00025	0.00026	0.00030
gamma-Chlordane	0.002	0.002	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Heptachlor	0.0004	0.0004	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Methoxychlor	0.04	0.04	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toxaphene	0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.005	< 0.005	< 0.005	0.0056	< 0.005	< 0.005	< 0.005
Total Pesticides			0.00348	0.00631	0.00265	0.00562	0.00231	0.00721	0.04130	0.01312	0.01386	0.03420	0.01522	0.03098	0.01452
pH (std units)			6.15	6.59	6.14	6.25	6.0	5.96	6.41	6.01	5.81	5.73	5.92	5.6	6.19
Specific Conductance (mS/cm)			0.351	0.275	0.222	0.337	0.361	0.247	0.451	0.283	0.449	0.416	0.445	0.383	0.36
Turbidity (NTUs)			17.8	58.3	9.2	9.61	21.4	9.5	>100	9.79	10.7	2	9.81	48.1	0.75
DO (mg/L)			1.96	1.08	0.14	0.92	1.06	0.0	1.03	0.3	0.95	1.84	1.09	10.15	
ORP (mV)			107	68	79	73	138	68	-5	59	-33	114	77	170	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2
Sample Date	Published by EPD	Concentrations	11/12/2018	5/11/2018	11/2/2017	5/4/2017	11/9/2016	6/2/2016	11/12/2015	5/28/2015	11/12/2014	5/14/2014	11/14/2013	05/29/2013	05/30/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	< 0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0137
Total Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00445
Total Zinc	6.0	2.0	< 0.01	0.0123 JB	<0.0100	<0.0100	<0.01	0.0428	<0.01	<0.01	<0.010	<0.010	0.0102	0.0273	0.0109
Dissolved Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	< 0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dissolved Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.0136	<0.0500	<0.0100	<0.0100	<0.01	<0.01	<0.01	<0.01	<0.010	<0.01	<0.01	<0.01	<0.01
Total of Total Metals Concentrations			BDL	0.0123	BDL	BDL	BDL	BDL	0.0428	BDL	BDL	BDL	BDL	0.0102	0.04545
Total of Dissolved Metals Concentrations			0.0136	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	6.1	7.0	5.9	5.8	5.5	4.6	4.8	4.3	3.5	4.1	5.6	4.6	4.3
Sulfate	250 (NR)	250 (NR)	86	94	76	92	69	76	80	84	66	81	93	88	68
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	<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	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000070
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00014
delta-BHC	0.0003	0.00005(DL)	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000057
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00044	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<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	BDL	0.00054	BDL
pH (std units)			5.76	5.82	5.71	5.86	5.63	5.31	5.16	5.08	5.51	5.71	5.56	5.43	6.03
Specific Conductance (mS/cm)			0.377	0.32	0.232	0.349	0.342	0.249	0.415	0.27	0.412	0.356	0.405	0.386	0.38
Turbidity (NTUs)			4.4	0.37	1.7	0	2.8	1.4	0.3	0	1.5	8.5	9.89	9.8	2.27
DO (mg/L)			1.75	1.37	0.15	1.2	1.1	0.0	1.3	0.18	0.93	1.43	1.89	5.86	
ORP (mV)			67	178	231	186	179	213	182	193	-40	135	139	246	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3
Sample Date	Published by EPD	Concentrations	11/13/2018	5/15/2018	11/2/2017	5/4/2017	11/10/2016	6/3/2016	11/12/2015	6/5/2015	11/13/2014	5/15/2014	11/14/2013	05/30/2013	05/31/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.743	0.652	0.525	0.839	0.893	1.03	0.624	0.884	0.820	0.695	0.933	1.12	1.09
Total Lead	0.015	0.015	0.00248	0.00245	0.00217	0.00262	0.0026	0.00297	0.00281	0.00544	0.00301	0.00407	0.00499	0.00466	0.00266
Total Zinc	6.0	2.0	2.05	1.76	1.390	2.25	2.19	2.02	1.65	2.16	2.120	1.95	2.55	2.92	2.14
Dissolved Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.765	0.663	0.506	0.669	0.68	0.611	0.646	0.724	0.842	0.672	0.845	1.05	1.01
Dissolved Lead	0.015	0.015	0.00229	0.00219	0.00203	0.00235	0.00204	0.00216	0.00238	0.00309	0.00308	0.00336	0.00334	0.00346	0.00175
Dissolved Zinc	6.0	2.0	2.07	1.85	1.34	1.61	1.94	1.39	1.67	2.08	2.19	1.9	2.04	2.74	2.00
Total of Total Metals Concentrations			2.79548	2.41445	1.91717	3.09162	3.0856	3.05297	2.27681	3.04944	2.94301	2.64907	3.48799	4.04466	3.231657
Total of Dissolved Metals Concentrations			2.83729	2.51519	1.84803	2.28135	2.62204	2.00316	2.31838	2.80709	3.03508	2.57536	2.88834	3.79346	3.005752
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	1.6	1.8	1.9	3.3	2.9	<5	<12	38	6.2	7.4	11	12	9.5
Sulfate	250 (NR)	250 (NR)	550	590	530	630	610	520	600	530	600	600	640	600	550
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	<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	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0016	0.0017	0.0015	0.001500	0.0014	0.0032	0.0016	0.001200	0.000870	0.00095	0.00055	0.00049	0.00063
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0016	0.0014	0.00120	0.00150	0.0015	0.0026	0.0015	0.00110	0.0011	0.0012	0.00072	0.00077	0.0010
delta-BHC	0.0003	0.00005(DL)	0.00046	0.00043	0.000380	0.000390	0.00043	0.00095	0.00051	0.000410	0.000360	0.00040	0.00019	0.00017	0.00027
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00067	0.00067	0.00063	0.0006	0.00056	0.0013	0.00071	0.00051	0.00035	0.00042	0.00022	0.00021	0.00026
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.00433	0.00420	0.00371	0.00399	0.00389	0.00805	0.00432	0.00322	0.00268	0.00297	0.00168	0.00164	0.00219
pH (std units)			3.83	3.72	3.92	3.78	3.87	3.78	3.6	2.49	3.69	4.03	3.75	3.9	4.33
Specific Conductance (mS/cm)			1.09	0.86	0.599	1.14	1.05	0.692	1.34	0.958	1.44	1.27	1.49	1.51	1.43
Turbidity (NTUs)			9.7	2.07	0	0	1.4	8.7	6	4.2	7.7	1.8	9.56	35.5	8.82
DO (mg/L)			1.43	1.02	0.02	0.8	1.3	0	0.84	0.54	1.88	2.17	0.63	1.38	
ORP (mV)			455	392	459	419	288	455	367	383	428	227	441	486	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4	TW-4
Sample Date	Published by EPD	Concentrations	11/12/2018	5/15/2018	11/3/2017	5/4/2017	11/9/2016	6/3/2016	11/12/2015	5/29/2015	11/13/2014	5/15/2014	11/15/2013	05/30/2013	05/31/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.191	0.146 J	0.185	0.186	0.166	0.167	0.134	0.149	0.166	0.166	0.234	0.127	0.139
Total Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00274	0.00349	<0.001	<0.001	<0.001	0.0116	<0.001
Total Zinc	6.0	2.0	0.941	0.719 J	0.897	0.85	0.804	0.896	0.626	0.793	0.884	0.968	1.27	0.847	0.902
Dissolved Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.179	0.166 J	0.140	0.127	0.15	0.142	0.126	0.145	0.151	0.161	0.216	0.113	0.128
Dissolved Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.901	0.867 J	0.792	0.757	0.739	0.801	0.622	0.752	0.836	0.944	1.14	0.879	0.847
Total of Total Metals Concentrations			1.132	0.865	1.082	1.038	0.97	1.063	0.76274	0.94549	1.05	1.134	1.504	0.9856	1.0416
Total of Dissolved Metals Concentrations			1.08	1.033	0.932	0.884	0.889	0.943	0.748	0.897	0.987	1.105	1.356	0.992	0.9745
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	4.8	2.3	1.2	1.6	1.1	1.0	0.85	0.82	1.8	3.0	2.8	1.4	<1.2
Sulfate	250 (NR)	250 (NR)	110	130	120	170	150	160	130	140	160	190	220	190	160
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	<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	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000093	0.00012
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0014	0.0028	0.0030	0.0034	0.0059	0.0067	0.0086	0.0094	0.0062	0.0077	0.0091	0.0094	0.014
delta-BHC	0.0003	0.00005(DL)	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00085	0.00021	0.00083	0.00021	0.00026	0.00092
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	0.00014	<0.0001	0.00019	0.00015	0.00013	0.00011	0.00017	0.00015	0.00026	0.00021
gamma-BHC	0.0002	0.0002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00013
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.0014	0.0028	0.00300	0.00354	0.00590	0.00689	0.00884	0.00974	0.00081	0.00808	0.00951	0.01019	0.01545
pH (std units)			4.32	4.32	4.37	4.24	4.3	4.33	4.18	4	4.07	4.24	4.34	4.84	4.62
Specific Conductance (mS/cm)			0.324	0.263	0.220	0.311	0.332	0.264	0.37	0.268	0.45	0.481	0.564	0.48	0.45
Turbidity (NTUs)			9.4	0	4.9	9.71	8.0	4.4	0.5	0	0.7	8.9	56.6	1.73	
DO (mg/L)			1.93	1.73	0.69	1.39	1.6	0.0	1.41	1.17	2.79	4.01	2.24	6.03	
ORP (mV)			315	282	346	276	303	395	327	365	300	219	399	360	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	
Sample Date	Published by EPD	Concentrations	11/14/2018	5/15/2018	11/3/2017	5/5/2017	11/10/2016	6/3/2016	11/13/2015	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	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0125	0.0087	<0.005
Total Copper	1.3	1.3	1.41	1.04 J	1.30	1.57	1.8	0.903	1.05	1.5	1.40	1.48	1.71	1.58	0.865	
Total Lead	0.015	0.015	< 0.001	<0.001	<0.001	0.00106	0.00228	<0.001	0.0017	0.00149	0.0025	0.00198	0.0716	0.0257	0.0029	
Total Zinc	6.0	2.0	16.0	15.8	13.1	14.7	16.7	7.41	8.49	33.6	17.4	14.5	18.9	11.6	13.7	
Dissolved Arsenic	0.01	0.01	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	1.53	1.18 J	0.694	1.3	1.21	0.749	1.04	1.32	1.29	1.66	1.08	1.57	0.751	
Dissolved Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	0.00196	<0.001	0.00118	0.00106	0.00169	0.00228	0.00687	0.00276	<0.001	
Dissolved Zinc	6.0	2.0	16.9	14.5	11.7	13.0	14.7	6.52	8.55	12.8	19.6	15.8	15.1	11.0	8.6	
Total of Total Metals Concentrations			17.41	16.84	14.4	16.27106	18.50228	8.313	9.5417	35.10149	18.8025	15.98198	20.6941	13.2144	14.5678	
Total of Dissolved Metals Concentrations			18.43	15.68	12.394	14.3	15.91196	7.269	9.5912	14.1211	20.8917	17.46228	16.18687	12.57276	9.351	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	20	26	23	23	23	19	23	28	29	37	26	31	30	
Sulfate	250 (NR)	250 (NR)	550	530	480	680	750	560	620	620	810	480	600	500	430	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	<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	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00021	<0.0001	0.00026	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	0.000082	0.000078	0.000075	0.000089	0.000059	0.000086	0.00019	0.00020	0.00012	0.00011	0.000053	0.00011	0.00021	
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	0.00099	0.00060	0.00068	0.00097	0.00081	0.0011	0.00082	0.001	0.001	0.00066	0.00049	0.00051	0.00042	
delta-BHC	0.0003	0.00005(DL)	0.000082	<0.00005	<0.00005	0.000089	<0.00005	0.000064	0.00024	0.00017	0.000063	0.000083	<0.00005	<0.00005	0.00026	
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	0.00012	0.00011	0.000096	0.00013	0.000077	0.00011	0.00024	0.00027	0.00013	0.00011	0.00007	0.000098	0.00023	
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Total Pesticides			0.001274	0.00079	0.00085	0.00128	0.00095	0.00136	0.00149	0.00137	0.00172	0.00096	0.00087	0.00072	0.00112	
pH (std units)			4.05	4.01	4.05	3.92	4.02	3.88	4.23	4.78	3.92	4.13	4.12	4.36	5.35	
Specific Conductance (mS/cm)			1.35	1.0	0.815	1.39	1.26	0.803	1.43	1.2	1.61	1.36	1.51	1.54	1.31	
Turbidity (NTUs)			9.8	1.8	28.7	8.3	2.5	9.2	7.9	9.7	10.3	17.5	43	10.1	7.76	
DO (mg/L)			1.26	1.0	0.02	1.2	1.2	0.0	0.88	0.2	2.02	3.84	0.69	1.73		
ORP (mV)			445	377	423	369	342	426	2.37	360	389	191	363	348		

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-06	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6
Sample Date	Published by EPD	Concentrations	11/14/2018	5/16/2018	11/6/2017	5/5/2017	11/11/2016	6/6/2016	11/16/2015	6/1/2015	11/14/2014	5/21/2014	11/18/2013	05/29/2013	05/30/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.005	0.00672	<0.005	<0.005	<0.005	<0.005	0.00587	0.00731	<0.005	<0.005	<0.005	0.00821	<0.005
Total Copper	1.3	1.3	0.349	1.06	0.123	0.544	0.0917	0.0811	0.643	1.08	0.0656	0.380	0.111	0.917	0.195
Total Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00158	0.00115	<0.001
Total Zinc	6.0	2.0	21.6	36.0	0.604	25.7	0.316	0.587	35.7	125.0	0.375	14.9	0.55	40.6	0.790
Dissolved Arsenic	0.01	0.01	< 0.005	0.00707	<0.005	<0.005	<0.005	<0.005	<0.005	0.00612	<0.005	<0.005	<0.005	0.00799	<0.005
Dissolved Copper	1.3	1.3	0.447	0.669	0.0840	0.404	0.0786	0.0751	0.556	0.941	0.079	0.401	0.0907	0.987	0.163
Dissolved Lead	0.015	0.015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	21.3	37.6	0.550	23.3	0.307	0.581	29.3	37.3	0.456	15.6	0.460	40.90	0.788
Total of Total Metals Concentrations			21.949	37.06672	0.727	26.244	0.4077	0.6681	36.34887	126.08731	0.4406	15.28	0.66258	41.52636	0.9853
Total of Dissolved Metals Concentrations			21.747	38.27607	0.634	23.704	0.3856	0.6561	29.856	38.24712	0.535	16.001	0.5507	41.89499	0.9504
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	18	34	34	36	30	14	19	28	8.5	27	17	25	74
Sulfate	250 (NR)	250 (NR)	490	790	260	720	210	240	1900	670	230	460	260	960	440
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	<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	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0021	0.0018	0.00088	0.0027	<0.00005	<0.00005	0.0021	0.0018	<0.00005	0.00059	<0.00005	0.0029	0.0013
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0015	0.0021	0.00074	0.0019	0.00088	0.0011	0.0015	0.0019	0.0013	0.00012	0.00098	0.0021	0.0011
delta-BHC	0.0003	0.00005(DL)	0.00035	0.00047	<0.00005	0.00045	<0.00005	<0.00005	0.00041	0.00057	<0.00005	0.00019	<0.00005	0.00054	<0.00005
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00083	0.00067	0.00060	0.00091	<0.00005	<0.00005	0.00091	0.00087	<0.00005	0.00024	<0.00005	0.0012	0.00066
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.00478	0.00504	0.00089	0.00596	0.00088	0.00110	0.00492	0.00514	0.00130	0.00114	0.00098	0.00674	0.00126
pH (std units)			4.67	4.52	4.70	4.65	4.48	4.42	5.13	5.12	4.09	4.6	4.22	4.83	4.51
Specific Conductance (mS/cm)			1.44	1.73	0.659	1.7	0.96	0.586	1.89	1.68	0.986	1.32	1.08	2.27	2.04
Turbidity (NTUs)			1.3	0	0	9.7	0.0	0.0	0.2	0.3	10.7	8.3	9.56	0	3.58
DO (mg/L)			1.11	4.01	0.13	0.78	1.3	0.0	1.06	0.2	2.53	3.63	3.06	1.87	
ORP (mV)			360	292	181	294	328	405	228	299	370	173	377	301	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7
Sample Date	Published by EPD	Concentrations	11/15/2018	5/16/2018	11/7/2017	5/9/2017	11/11/2016	6/6/2016	11/17/2015	6/5/2015	11/18/2014	5/22/2014	11/19/2013	05/28/2013	06/01/2012
Metals mg/L															
Total Arsenic	0.01	0.01	< 0.5	0.0108	<0.005	<0.005	<0.005	<0.005	0.0317	<0.005	0.0152	0.0126	0.0136	0.0139	<0.05
Total Copper	1.3	1.3	153	124	197	215	132	142	131	134	124	153	256	170	95.0
Total Lead	0.015	0.015	< 0.1	0.019	0.0398	0.0503	0.0264	0.0238	0.0212	0.0364	0.0286	<0.001	0.0941	0.0117	0.0391
Total Zinc	6.0	2.0	326	359	378	398	327	314	260	286	204	322	515	310	226
Dissolved Arsenic	0.01	0.01	< 0.5	0.0113	<0.100	<0.250	<0.005	<0.005	0.0399	<0.005	0.0147	0.011	<0.005	0.0127	<0.100
Dissolved Copper	1.3	1.3	41.8	128	185	208	140	89.8	122	174	99.2	125	191	175	88.4
Dissolved Lead	0.015	0.015	< 0.1	0.0187	0.0222	0.0404	0.0326	0.019	0.0231	0.0342	0.0275	0.0353	0.0750	0.00829	0.0404
Dissolved Zinc	6.0	2.0	89.3	381	350	377	311	173	254	347	228	258	370	323	237
Total of Total Metals Concentrations			479.0	483.0298	575.0398	613.0503	459.0264	456.0238	391.0529	420.0364	328.0438	475.0126	771.1077	480.0256	320.68909
Total of Dissolved Metals Concentrations			131.1	509.03	535.0222	585.0404	451.0326	262.819	376.063	521.0342	327.2422	383.0463	561.075	498.02099	325.7004
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	110	110	88	91	110	110	110	2	77	110	73	60	140
Sulfate	250 (NR)	250 (NR)	3300	4400	3700	6800	3400	1800	3600	270	5000	3900	5700	5000	2900
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	< 0.0001	<0.0001	<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	0.0005	0.0001	< 0.0001	<0.0001	0.00023	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0005	0.00096 JH	0.00060	0.00048	0.00029	0.00042	0.00054	0.00039	0.00045	0.00031	0.00040	0.00021	0.00029
alpha-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0019	0.0027 JH	0.0022	0.0015	0.0019	0.0024	0.0018	0.0015	0.0014	0.0013	0.00040	0.00039	0.0013
delta-BHC	0.0003	0.00005(DL)	0.00023	0.00097 JH	<0.0005	0.00013	0.000087	0.00013	0.00014	0.000086	0.00011	0.000058	<0.000050	0.000074	0.00017
Dieldrin	0.00002	0.0001(DL)	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00049	0.00099 JH	0.00043	0.00036	0.00027	0.00037	0.00035	0.00028	0.00032	0.00025	0.00018	0.00015	0.00029
gamma-Chlordane	0.002	0.002	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.00312	0.00562	0.00346	0.00247	0.00255	0.00332	0.00283	0.00226	0.00228	0.00192	0.00098	0.00082	0.00201
pH (std units)			3.91	3.67	3.85	3.66	4.09	4.1	3.8	3.64	3.88	3.72	3.39	3.73	4.02
Specific Conductance (mS/cm)			5.99	5.22	5.8	6.84	4.52	4.48	5.41	5.3	5.73	5.2	8.14	5.62	6.15
Turbidity (NTUs)			11.1	9.84	7.3	82.6	10	222	2.9	15.7	8.38	0	9.80	16.8	3.48
DO (mg/L)			1.08	1.49	0.06	0.9	0.8	0.0	1.5	0	5.45	2.53	2.20	1.87	
ORP (mV)			242	243	141	295	225	257	249	230	275	315	286	309	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-08	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8
Sample Date	Published by EPD	Concentrations	11/15/2018	5/16/2018	11/6/2017	5/8/2017	11/14/2016	6/6/2016	11/13/2015	6/2/2015	11/14/2014	5/19/2014	1/8/2014	10/9/2013	7/16/2013
Metals mg/L															
Total Arsenic	0.01	0.01	0.119	0.0988	0.163	0.0938	0.108	0.102	0.0878	0.0979	0.121	0.104	0.128	0.101	0.135
Total Copper	1.3	1.3	0.165	0.0664	0.0262	0.0216	0.0233	0.055	0.0135	0.0199	0.0106	0.00847	0.013	0.0110	0.0085
Total Lead	0.015	0.015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00127	0.00237	< 0.001	< 0.001	0.00134	0.00211	< 0.001
Total Zinc	6.0	2.0	1.26	1.14	2.92	1.44	4.79	2.09	1.68	2.02	3.59	2.54	2.60	1.52	1.72
Dissolved Arsenic	0.01	0.01	< 0.005	0.0248	0.0727	0.0104	0.0784	0.0846	0.0541	0.0369	0.0146	0.0738	0.121	0.0831	0.0857
Dissolved Copper	1.3	1.3	0.155	0.02030	0.00561	0.00347	0.0178	0.0082	0.00271	0.00244	0.0035	< 0.002	< 0.002	< 0.002	< 0.002
Dissolved Lead	0.015	0.015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Zinc	6.0	2.0	0.71	0.544	2.21	0.208	4.23	1.75	1.31	1.37	2.98	2.07	1.47	1.12	1.08
Total of Total Metals Concentrations			1.544	1.3052	3.1092	1.5554	4.9213	2.247	1.783	2.140	3.722	2.652	2.742	1.634	1.863
Total of Dissolved Metals Concentrations			0.865	0.5891	2.28831	0.22187	4.3262	1.8428	1.3668	1.4093	2.9981	2.1438	1.5910	1.2031	1.1657
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 12	< 0.25	< 0.25	< 12	< 12
Sulfate	250 (NR)	250 (NR)	1600	850	620	930	670	720	890	650	630	600	980	890	990
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	0.0054	0.0036	< 0.010	0.0042	< 0.002	0.0018	0.0046	0.0039	0.019	< 0.0001	0.007	0.0057	0.0051
4,4'-DDE	0.0005	0.0001	< 0.0001	< 0.00010	< 0.00010	< 0.0001	< 0.002	< 0.0001	< 0.0001	< 0.0001	< 0.01	< 0.0001	0.0013	0.00049	< 0.001
4,4'-DDT	0.0023	0.0001	0.0048	0.013	< 0.010	0.0086	< 0.002	0.0015	0.0036	0.015	0.350	< 0.0001	0.15	0.0500	0.0085
alpha-BHC	0.00007	0.00005(DL)	0.47	0.74	0.36	0.65	0.26	0.59	0.58	0.45	0.340	0.007	0.760	0.310	0.740
alpha-Chlordane	0.002	0.002	< 0.00005	< 0.00005	0.00028	< 0.00005	< 0.001	< 0.00005	0.00021	< 0.00005	< 0.005	< 0.00005	0.00031	0.00015	< 0.0005
beta-BHC	0.0003	0.00005(DL)	0.051	0.078	0.0450	0.075	0.034	0.067	0.087	0.054	0.140	0.022	0.22	0.092	0.11
delta-BHC	0.0003	0.00005(DL)	1.3	2.0	0.11	2	0.076	0.74	1.2	1.2	0.160	0.008	2.40	2.40	2.20
Dieldrin	0.00002	0.0001(DL)	0.0048	0.0040	0.0029	0.0031	< 0.002	0.0014	0.0041	0.0036	< 0.01	< 0.0001	0.0074	0.0074	0.0062
gamma-BHC	0.0002	0.0002	1.1	1.70	0.15	1.5	0.086	0.72	1.0	0.97	0.230	0.0034	2.0	1.2	1.8
gamma-Chlordane	0.002	0.002	0.0012	0.00079	0.00085	0.00068	< 0.001	0.00034	0.00096	0.001	< 0.005	< 0.00005	0.0018	0.0011	0.0011
Heptachlor	0.0004	0.0004	< 0.0005	< 0.00005	< 0.00005	< 0.005	< 0.001	0.013	< 0.00005	< 0.00005	< 0.005	< 0.00005	< 0.00005	< 0.0005	< 0.0005
Methoxychlor	0.04	0.04	< 0.0005	< 0.005	< 0.005	< 0.0005	< 0.01	< 0.0005	< 0.0005	< 0.005	< 0.05	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Toxaphene	0.003	0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.005	< 0.005	< 0.5	< 0.005	< 0.005	< 0.005	< 0.005
Total Pesticides			2.9372	4.53939	0.66903	4.24158	0.45600	2.13504	2.88047	2.69750	1.23900	0.02060	5.54781	4.06684	4.871
pH (std units)			6.38	6.18	6.3	6.84	5.99	6.55	6.35	4.32	5.81	6.18	6.35	6.19	6.34
Specific Conductance (mS/cm)			3.27	2.35	2.03	3.29	1.45	1.33	2.76	1.97	1.97	1.76	2.503	2.893	2.689
Turbidity (NTUs)			6.6	0	3.4	0.9	0.0	0.0	0.7	0	67.0	0	4.05	14.5	1.2
DO (mg/L)			1.66	0.87	0.3	1.03	1.2	0.0	0.84	0.17	2.35	2.4	1.35	1.57	0.58
ORP (mV)			-45	-101	-59	-92	91	-70	-65	66	-41	20	-109.6	-87.5	-87.4

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-8	TW-8	TW-8	TW-09	TW-9	TW-9	TW-9	TW-9	TW-9	TW-9	TW-9	TW-9	
Sample Date	Published by EPD	Concentrations	4/15/2013	1/21/2013	05/31/2012	11/16/2018	5/16/2018	11/6/2017	5/8/2017	11/14/2016	6/7/2016	11/17/2015	6/8/2015	11/17/2014	5/22/2014
Metals mg/L															
Total Arsenic	0.01	0.01	0.164	0.155	0.101	< 0.005	<0.005	<0.005	<0.005	0.02370	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0903	0.0159	0.0668	0.0871	0.0534	0.1220	0.0836	0.191	0.158	0.0998	0.105	0.110	0.0599
Total Lead	0.015	0.015	<0.001	0.0088	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	4.05	3.27	4.43	2.62	2.28	3.79	3.38	4.04	3.48	3.6	7.89	4.51	3.09
Dissolved Arsenic	0.01	0.01	0.0457	0.156	0.0174	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.0234	<0.002	0.0278	0.0709	0.0402	0.101	0.0767	0.182	0.128	0.0841	0.0964	0.0921	0.04850
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	3.04	2.84	4.16	2.5	1.92	3.50	0.999	4.01	3.47	3.79	4.84	4.54	3.01
Total of Total Metals Concentrations			4.3043	3.450	4.59973	2.7071	2.3334	3.912	3.4636	4.2547	3.63800	3.700	7.995	4.620	3.150
Total of Dissolved Metals Concentrations			3.1091	2.996	4.20515	2.5709	1.9602	3.601	1.0757	4.192	3.598	3.8741	4.9364	4.6321	3.0585
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<2.5	<2.5	<2.5	0.74	0.27	0.39	0.54	<2.5	<2.5	3.1	<0.25	<0.25	<2.5
Sulfate	250 (NR)	250 (NR)	1100	390	750	170	160	260	290	230	240	450	610	340	250
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	0.0019	<1.0	<0.01	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.1	<0.01	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	0.0013	3.2	<0.01	< 0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.410	10.0	0.64	0.0033	0.0048	0.014	0.012	0.0067	0.0077	0.017	0.0085	0.0088	0.014
alpha-Chlordane	0.002	0.002	<0.0025	<0.050	<0.005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.05	1.50	0.11	0.0021	0.0090	0.0062	0.004	0.003	0.0045	0.012	0.0059	0.0044	0.0014
delta-BHC	0.0003	0.00005(DL)	1.30	9.3	1.6	0.0037	0.0035	0.0071	0.0075	0.0037	0.0049	0.0088	0.0065	0.0077	0.0066
Dieldrin	0.00002	0.0001(DL)	0.0027	<0.1	<0.01	0.00011	0.00019	0.00017	0.00013	<0.0001	<0.0001	0.00016	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	1.2	6.2	1.3	0.00021	0.0015	0.0011	0.004	0.00088	0.00077	0.0015	0.0017	0.0011	0.00035
gamma-Chlordane	0.002	0.002	<0.0025	<0.05	<0.005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.0025	0.260	0.041	< 0.00005	0.00017	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.50	<0.05	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<5.0	<0.5	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Total Pesticides			2.966	30.46	3.6385	0.00942	0.01936	0.02857	0.02763	0.01428	0.01787	0.039460	0.022600	0.022000	0.0224
pH (std units)			6.36	5.90	6.18	5.79	5.47	5.65	5.66	5.6	5.58	5.34	1.93	5.26	5.53
Specific Conductance (mS/cm)			2.749	1.117	1.91	0.556	0.436	0.435	0.686	0.573	0.434	0.91	0.835	0.918	0.637
Turbidity (NTUs)			4.8	328	2.01	0	0	9.8	0	0.0	0.0	1.7	0.5	2.21	1.66
DO (mg/L)			0.79	1.63		1.52	0.7	0.13	0.79	1.0	0.0	0.96	1.53	2.12	0.7
ORP (mV)			-41.2	-9.7		222	134	186	175	124	210	180	469	231	199

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-9	TW-9	TW-9	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10
Sample Date	Published by EPD	Concentrations	11/18/2013	05/28/2013	05/31/2012	11/16/2018	5/17/2018	11/7/2017	5/9/2017	11/14/2016	6/7/2016	11/17/2015	6/8/2015	11/17/2014	5/22/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00521	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0701	0.0407	0.0168	13.4	9.45	9.88	10.3	20	7.6	12.6	14.2	16.90	17.10
Total Lead	0.015	0.015	0.00161	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0143
Total Zinc	6.0	2.0	2.42	2.20	1.26	14.7	10.8	11.4	11.5	20	18.6	11.2	16.80	18.20	21.9
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.01	<0.005	<0.005	<0.005	<0.005	0.00604	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.00950	0.0343	0.0158	15.2	10.4	8.62	9.97	10.3	7.57	14.5	19.2	19.2	15.4
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	2.26	1.92	1.18	16.2	11.6	11.3	11	17.9	15.7	12.9	22.20	21.2	18.9
Total of Total Metals Concentrations			2.492	2.2407	1.27475	28.1	20.25	21.28	21.8	40	26.2	23.80521	31	35.1	39.0143
Total of Dissolved Metals Concentrations			2.2695	1.9543	1.19178	31.4	22.00	19.92	20.97	28.2	23.27	27.4	41.4	40.40	34.30000
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<1.2	<1.2	0.49	< 12	1.9	2.2	1.8	<2.5	<2.5	<5	2.50	1.8	<2.5
Sulfate	250 (NR)	250 (NR)	170	170	170	750	650	410	580	830	830	770	730	600	900
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0015	0.0009	0.0074	< 0.00005	<0.00005	<0.00005	<0.00005	0.000099	<0.00005	0.00056	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000092	0.00042	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.00056	0.00091	0.0054	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000092	0.00042	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	0.00073	0.00048	0.0043	0.000078	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00029	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	0.00041	<0.00010	0.00010	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.000094	0.000069	0.0011	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000058	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005
Total Pesticides			0.0033	0.00236	0.01826	0.000078	BDL	BDL	BDL	0.000099	0.000092	0.00133	BDL	BDL	BDL
pH (std units)			5.33	5.4	5.78	3.68	3.53	3.75	3.96	3.77	3.51	3.6	1.93	3.46	3.67
Specific Conductance (mS/cm)			0.565	0.878	0.61	1.02	0.818	0.501	0.904	1.12	0.798	1.154	0.835	1.27	1.12
Turbidity (NTUs)			0	7.83	0.47	0	0	0	5.3	0	0	3.78	0.5	9.89	3.42
DO (mg/L)			0.77	3.8		2.16	2.57	1.19	2.8	1.8	0	0.96	1.53	2.74	2.17
ORP (mV)			157	230		463	253	471	430	213	352	395.6	469	430	445

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-10	TW-10	TW-10	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11	TW-11
Sample Date	Published by EPD	Concentrations	11/18/2013	05/24/2013	05/31/2012	11/8/2018	5/10/2018	11/1/2017	5/3/2017	11/8/2016	6/1/2016	11/11/2015	5/27/2015	11/11/2014	5/13/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	9.66	11.4	6.98	0.146	0.152	0.121	0.139	0.203	0.137	0.11	0.142	0.130	0.147
Total Lead	0.015	0.015	0.00161	0.00182	0.00271	< 0.001	<0.001	0.00141	0.00116	0.00159	0.00111	<0.001	0.00147	0.00104	0.00148
Total Zinc	6.0	2.0	16.2	13.6	9.24	0.551	0.594	0.477	2.67	0.847	0.495	0.386	0.504	0.514	0.591
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	11.5	10.5	6.43	0.157	0.148	0.114	0.127	0.180	0.129	0.117	0.126	0.135	0.134
Dissolved Lead	0.015	0.015	<0.001	0.00113	0.00228	< 0.001	<0.001	0.00101	<0.001	0.00116	<0.001	<0.001	<0.001	<0.001	0.00144
Dissolved Zinc	6.0	2.0	14.4	12.5	8.66	0.598	0.571	0.455	0.536	0.736	0.476	0.396	0.461	0.501	0.514
Total of Total Metals Concentrations			25.86161	25.00182	16.221709	0.697	0.746	0.59941	2.81016	1.05159	0.63311	0.496	0.64747	0.64504	0.73948
Total of Dissolved Metals Concentrations			25.90000	23.00113	15.09528	0.755	0.719	0.57001	0.663	0.91716	0.605	0.513	0.587	0.636	0.64944
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<2.5	3.6	2.9	5.2	5.5	5.3	5.2	<12	5	5.7	5.1	2.8	4.4
Sulfate	250 (NR)	250 (NR)	530	620	490	170	190	150	150	280	170	160	160	150	170
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	0.000091	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.004	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0049	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	0.00023	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0034	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0012	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	0.00012	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0011	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.005	<0.005	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Total Pesticides			BDL	BDL	0.00045	BDL	BDL	BDL	BDL	BDL	BDL	0.01352	BDL	BDL	BDL
pH (std units)			3.69	3.87	4.1	4.18	4.19	4.30	4.22	4.31	3.89	4.36	4.4	4.10	4.24
Specific Conductance (mS/cm)			1.06	1.28	0.92	0.425	0.369	0.281	0.411	0.613	0.494	0.481	0.345	0.519	0.476
Turbidity (NTUs)			0.00	9.57	6.43	0.5	0.93	2.2	8.56	0.0	3.3	0.6	9.71	9.53	1.9
DO (mg/L)			2.50	6.23		2.41	1.99	1.50	3.5	4.15	2.51	2.67	1.57	3.83	3.35
ORP (mV)			412	454		443	381	398	336	312	400	250	404	-30	232

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-11	TW-11	TW-11	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12	TW-12
Sample Date	Published by EPD	Concentrations	11/13/2013	05/23/2013	05/31/2012	11/7/2018	5/9/2018	10/31/2017	5/2/2017	11/8/2016	6/1/2016	11/10/2015	5/27/2015	11/11/2014	5/13/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.146	0.145	0.132	< 0.002	<0.01	<0.002	0.00737	0.00448	0.0171	0.00305	0.00831	0.0041	0.00258
Total Lead	0.015	0.015	0.00195	0.00233	0.00252	< 0.001	<0.001	<0.001	0.00923	<0.001	0.00140	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	0.513	0.566	0.738	0.181	0.167	0.148	0.242	0.212	0.0809	0.197	0.214	0.204	0.134
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.144	0.126	0.121	< 0.002	<0.002	<0.002	<0.002	0.00297	0.00901	<0.002	0.00927	<0.002	<0.002
Dissolved Lead	0.015	0.015	0.00154	0.00209	0.00212	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.47	0.495	0.688	0.164	0.164	0.143	0.0843	0.186	0.0665	0.197	0.207	0.191	0.178
Total of Total Metals Concentrations			0.66095	0.71333	0.872222	0.181	0.167	0.148	0.2586	0.21648	0.0994	0.20005	0.22231	0.2081	0.13658
Total of Dissolved Metals Concentrations			0.61554	0.62309	0.811023	0.164	0.164	0.143	0.0843	0.18897	0.07551	0.197	0.21627	0.191	0.178
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	3.7	3.5	3.7	1.6	1.7	2.0	2	1.5	<0.25	2.6	2.2	<1.2	1.7
Sulfate	250 (NR)	250 (NR)	180	160	170	61	58	68	61	70	<5	65	72	60	69
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	0.000092	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.005	<0.005	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Total Pesticides			BDL	BDL	BDL	BDL	BDL	0.000092	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			4.27	4.37	4.78	5.45	6.13	5.76	5.61	5.22	4.59	5.18	4.86	4.5	4.83
Specific Conductance (mS/cm)			0.464	0.7	0.51	0.228	0.191	0.140	0.228	0.222	0.224	0.313	0.203	0.292	0.215
Turbidity (NTUs)			6.16	9.81	0.81	30.3	15.9	103	875	5.7	8.9	2.4	2.7	4.1	3.6
DO (mg/L)			3.6	3.48		3.68	1.32	2.54	2.73	4.7	2.19	3.61	2.47	6.48	6.43
ORP (mV)			357	350		-1	29	152	224	261	318	246	361	266	334

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	TW-12	TW-12	TW-12	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B
Sample Date	Published by EPD	Concentrations	11/12/2013	05/23/2013	05/31/2012	11/7/2018	5/8/2018	10/31/2017	5/2/2017	11/8/2016	6/1/2016	11/10/2015	5/27/2015	11/11/2014	5/13/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	<0.002	<0.002	0.00291	0.00414	<0.01	<0.002	<0.002	0.00323	0.00655	0.00226	0.00838	0.00585	0.0209
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	0.00491
Total Zinc	6.0	2.0	0.182	0.263	0.0715	0.0224	0.0146 JB	<0.0100	<0.0100	0.0206	0.0471	0.01	0.0310	0.019	0.0876
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	<0.002	<0.002	<0.002	0.00417	0.00414	<0.002	<0.002	<0.002	0.00299	<0.002	0.00413	0.00305	<0.002
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.195	0.231	0.0529	0.0168	0.0157	<0.01	<0.01	<0.01	0.0274	<0.01	0.0238	0.0174	0.0349
Total of Total Metals Concentrations			0.182	0.263	0.074373	0.02654	0.0146	BDL	BDL	0.02383	0.05365	0.01226	0.03938	0.02485	0.11341
Total of Dissolved Metals Concentrations			0.195	0.231	0.05291	0.02097	0.01984	BDL	BDL	BDL	0.03039	BDL	0.02793	0.02045	0.0349
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	3.0	3.2	2.7	5	6.8	6.8	4.6	5.9	5	5.4	4.9	6.2	3.5
Sulfate	250 (NR)	250 (NR)	75	68	67	30	28	28	28	38	31	37	33	37	38
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			5.19	5.47	6.15	6.33	6.18	6.16	6.32	5.48	5.94	7.05	6.44	5.14	5.81
Specific Conductance (mS/cm)			0.238	0.493	0.36	0.368	0.305	0.317	0.326	0.457	0.343	0.403	0.338	0.474	0.401
Turbidity (NTUs)			9.89	8.7	15.2	2.6	0	0	1.1	8.4	1	0.5	0	2.3	
DO (mg/L)			4.41	5.2		2.76	4.51	1.35	3.68	1.59	1.36	23.9	3.57	2.10	5.73
ORP (mV)			165	220		219	148	194	153	221	219	176	67	205	197

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-1B	MW-1B	MW-1B	MW-1B	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	
Sample Date	Published by EPD	Concentrations	11/12/2013	05/21/2013	11/13/2012	7/29/2010 & 9/13/2010	11/12/2018	5/15/2018	11/1/2017	5/4/2017	11/8/2016	6/6/2016	11/12/2015	5/29/2015	11/12/2014	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Total Copper	1.3	1.3	0.0167	0.0124	0.0232	<0.005	3.56	1.44	3.66	2.8	1.64	1.61	1.58	1.56	2.30	
Total Lead	0.015	0.015	0.00408	0.00348	0.00113	<0.0015	0.00391	0.00209	0.00308	0.00424	0.00413	0.00375	0.0032	0.00235	0.00306	
Total Zinc	6.0	2.0	0.0403	0.0547	0.0679	<0.02	5.63	4.53	7.25	6.47	3.13	2.91	2.81	4.15	4.290	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.050	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	0.00266	<0.002	0.0258	na	3.53	1.55	3.34	2.56	1.51	1.46	1.81	1.46	2.16	
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	na	0.00299	0.00214	0.00281	0.00371	0.00349	0.00308	0.00273	0.0019	0.00342	
Dissolved Zinc	6.0	2.0	<0.01	<0.01	0.0767	na	5.48	5.00	6.59	3.1	3.04	2.68	2.96	3.92	3.74	
Total of Total Metals Concentrations			0.06108	0.07058	0.09223	BDL	9.19391	5.97209	10.91308	9.27424	4.77413	4.52375	4.3932	5.71235	6.59306	
Total of Dissolved Metals Concentrations			0.00266	BDL	0.1025	na	9.01299	6.55214	9.93281	5.66371	4.55349	4.14308	4.77273	5.3819	5.90342	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	7.0	3.0	3.6	4.5	3.7	3.2	2.1	2.9	<12	<2.5	2.8	2.1	1.7	
Sulfate	250 (NR)	250 (NR)	34	35	32	35	390	450	450	640	430	420	360	390	310	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000048	0.000072	0.00012	0.00011	0.00014	0.00028	0.00031	0.00017	0.00014	0.00019	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00048	0.00024	0.00052	0.00028	0.00045	0.00039	0.0004	0.00041	0.00055	0.00054	
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00048	< 0.00005	0.000072	<0.00005	<0.00005	0.000075	0.00011	0.000052	0.000057	0.000091	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00048	0.00011	0.00018	0.00014	0.00013	0.00025	0.00027	0.00016	0.00013	0.00016	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.0048	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Total Pesticides			BDL	BDL	BDL	BDL	0.000422	0.00089	0.00053	0.00072	0.00100	0.00109	0.00079	0.00088	0.00098	
pH (std units)			6.13	6.16	6.25	5.92/5.17	4.01	4.32	3.95	4.1	3.99	3.59	4.21	4.34	3.81	
Specific Conductance (mS/cm)			0.418	0.57	0.983	0.36/0.35	0.576	0.688	0.691	0.865	0.820	0.737	0.603	0.606	0.760	
Turbidity (NTUs)			0.99	8.03	6.35	6.4/2.76	7.3	0	0	0	4.9	7.6	2.2	0	2.2	
DO (mg/L)			4.35	4.78	3.5		0.14	0.92	0.14	1.17	1.55	1.23	29.2	0	2.1	
ORP (mV)			202	137	163		253	224	384	250	409	364	320	312	437	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-22	MW-22	MW-22	MW-22	MW-22	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	
Sample Date	Published by EPD	Concentrations	5/19/2014	11/13/2013	5/22/2013	11/14/2012	7/28/2010 & 9/13/2010	11/8/2018	5/17/2018	11/8/2017	5/10/2017	11/10/2016	6/7/2016	11/13/2015	6/2/2015
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	0.0038	< 0.005	<0.005	Well was dry and was not sampled	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	2.23	2.93	0.354	2.01	4.0	0.306	0.396		0.238	0.266	0.318	0.28	0.269
Total Lead	0.015	0.015	0.00518	0.00446	<0.001	0.00553	0.004	0.0321	0.0146		0.0328	0.0326	0.0176	0.0233	0.0153
Total Zinc	6.0	2.0	3.73	4.90	1.48	4.23	8.3	3.41	4.42		3.15	3.18	2.96	2.83	3.31
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	2.02	1.90	0.308	1.68	na	0.326	0.378		0.237	0.217	0.312	0.276	0.291
Dissolved Lead	0.015	0.015	0.00294	0.00446	<0.001	0.0049	na	0.0333	0.014		0.0321	0.0324	0.0161	0.0225	0.0138
Dissolved Zinc	6.0	2.0	4.33	3.05	1.44	2.97	na	3.73	4.73		1.03	3	2.92	2.67	3.5
Total of Total Metals Concentrations			5.96518	7.83446	1.834	6.24553	12.3078	3.7481	4.8306		3.4208	3.4786	3.2956	3.1333	3.5943
Total of Dissolved Metals Concentrations			6.35294	4.95446	1.748	4.6549	na	4.0893	5.122		1.2991	3.2494	3.2481	2.9685	3.8048
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	1.6	<2.5	3.7	<2.5	1.5	1.5	4.5		1.7	1.5	<2.5	2.1	1.2
Sulfate	250 (NR)	250 (NR)	400	380	470	380	750	260	330		260	270	260	270	260
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.00027	0.00019	0.00018	0.00022	0.00079	0.000068	0.000082		0.00012	<0.00005	0.00014	0.00016	0.00014
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00049	< 0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.00079	0.00043	0.001	0.00052	0.00096	0.0043	0.0034		0.0056	0.0047	0.0054	0.0049	0.0035
delta-BHC	0.0003	0.00005(DL)	0.00013	<0.00005	0.00016	0.00013	0.00026	0.000075	0.00011		0.00014	0.000099	0.00013	0.00019	0.00011
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00023	0.00016	0.00015	0.00021	0.00047	< 0.00005	<0.00005		0.000056	<0.00005	0.000054	0.000066	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097	< 0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.0049	< 0.003	<0.003		<0.003	<0.003	<0.003	<0.005	<0.005
Total Pesticides			0.00142	0.00078	0.00149	0.00108	0.00248	0.004443	0.00359		0.00592	0.00480	0.00572	0.00532	0.00375
pH (std units)			4.52	4.12	5.77	3.98	3.97/4.01	4.41	4.05		4.91	4.64	4.05	4.42	4.18
Specific Conductance (mS/cm)			0.806	0.662	1.03	0.682	0.76/1.03	0.564	0.541		0.582	0.558	0.373	0.659	0.439
Turbidity (NTUs)			10.7	1.23	0.27	0.9	6.8/1.98	2.6	0		0.4	0.0	0.0	1.5	8.7
DO (mg/L)			1.85	0.71	1.25	1.09		4.25	2.17		2.02	2.4	0.0	2.12	0.98
ORP (mV)			2.86	241	167	319		346	290		294	206	328	307	375

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26
Sample Date	Published by EPD	Concentrations	11/18/2014	5/1/2014	11/18/2013	5/24/2013	2012	9/14/2010	11/9/2018	5/10/2018	11/1/2017	5/3/2017	11/9/2016	6/2/2016	11/11/2015	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	Well could not be located	Well was dry and was not sampled	0.0327	Well was dry and was not sampled	0.0027	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.204	and was not sampled	and was not sampled	0.363	and was not sampled	0.32	0.0101	0.0084 JB	0.00855	0.00809	0.0117	0.00841	0.011	
Total Lead	0.015	0.015	0.025			0.314		0.02	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00109
Total Zinc	6.0	2.0	2.88			3.26		2.9	0.228	0.156	0.175	0.126	0.155	0.138	0.14	
Dissolved Arsenic	0.01	0.01	<0.005			<0.005		na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.195			0.317		na	0.0111	<0.005	0.00848	0.00753	0.0103	0.00752	0.00754	
Dissolved Lead	0.015	0.015	0.0181			0.0283		na	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	2.86			3.43		na	0.257	0.142	0.172	0.116	0.124	0.105	0.126	
Total of Total Metals Concentrations			3.109			3.9697		3.2427	0.2381	0.1644	0.18355	0.13409	0.1667	0.14641	0.1521	
Total of Dissolved Metals Concentrations			3.0731			3.7753		na	0.2681	0.142	0.18048	0.12353	0.1343	0.11252	0.13354	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	0.33			1.9		4.7	2.7	3.6	3.1	3.2	3	3.5	1.4	
Sulfate	250 (NR)	250 (NR)	190			240		200	230	190	260	230	310	210	270	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001			<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001			<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001			<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.00014			0.00026		0.00019	0.000054	0.000052	<0.00005	<0.00005	<0.00005	0.000077	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005			<0.00005		<0.00048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0074			0.0021		0.00095	0.00067	0.00058	0.00046	0.00031	0.00036	0.00078	0.00036	
delta-BHC	0.0003	0.00005(DL)	0.00010			0.000075		0.00013	0.000075	0.000058	0.000056	<0.00005	0.000055	0.0001	0.000064	
Dieldrin	0.00002	0.0001(DL)	<0.0001			<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005			0.00008		0.00012	0.000052	<0.00005	<0.00005	<0.00005	<0.00005	0.000052	0.021	
gamma-Chlordane	0.002	0.002	<0.00005			<0.00005		na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005			<0.00005		<0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005			<0.0005		<0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005			<0.005		<0.0048	0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			0.00764			0.002515		0.00139	0.00585	0.00069	0.00052	0.00031	0.00042	0.00101	0.021424	
pH (std units)			4.49	DRY	DRY	4.46	DRY	4.07	4.83	4.56	4.92	4.95	4.99	4.47	5.11	
Specific Conductance (mS/cm)			0.578			0.776		0.49	0.560	0.383	0.527	0.553	0.642	0.528	0.583	
Turbidity (NTUs)			0.0			354		9.7	1.3	1.36	1.3	0	1.6	2.6	6.3	
DO (mg/L)			4.51			7.99			1.11	1.11	0	0.96	0.0	0.55	1.88	
ORP (mV)			150			282			308	259	320	216	311	336	300	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101
Sample Date	Published by EPD	Concentrations	5/28/2015	11/12/2014	5/14/2014	11/13/2013	5/22/2013	11/14/2012	7/28/2010 & 9/13/2010	11/7/2018	5/9/2018	11/1/2017	5/2/2017	11/8/2016	6/1/2016	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0102	0.0126	0.0193	0.144	0.0146	0.0204	0.01	0.0114	0.0357	0.00503	0.00609	0.00963	0.0113	
Total Lead	0.015	0.015	<0.001	0.00139	0.00247	0.00122	0.00136	0.00799	<0.0015	0.00168	0.00539	0.00173	0.00186	0.00163	0.00332	
Total Zinc	6.0	2.0	0.142	0.168	0.166	0.164	0.209	0.228	0.16	2.34	2.35	1.50	2.03	0.194	0.751	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	0.0097	0.0109	0.0137	0.00811	0.00873	0.00814	na	0.0117	0.0164 JB	0.00475	0.00561	0.0075	0.00863	
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	0.00100	<0.001	<0.001	na	0.00199	0.00193	0.00164	0.00181	0.00112	0.00175	
Dissolved Zinc	6.0	2.0	0.136	0.179	0.149	0.16	0.175	0.219	na	2.25	2.19	1.43	2.03	0.174	0.741	
Total of Total Metals Concentrations			0.1522	0.18199	0.18777	0.30922	0.22496	0.25639	0.17	2.35308	2.39109	1.50676	2.03795	0.20526	0.76562	
Total of Dissolved Metals Concentrations			0.1457	0.1899	0.1627	0.16911	0.18373	0.22714		2.26369	2.20833	1.43639	2.03742	0.18262	0.75138	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	1.3	1.0	0.73	<1.2	3.0	6.4	4.8	17	18	19	16	4.7	13	
Sulfate	250 (NR)	250 (NR)	230	190	230	190	170	85	210	72	86	70	77	75	63	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.000061	0.000071	0.00009	0.000056	0.000081	<0.00005	0.00011	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.00043	0.00051	0.00052	0.00039	0.00036	0.000096	0.00054	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	0.000074	<0.000050	0.00009	0.000074	0.000067	<0.00005	0.00014	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			0.000565	0.0006	0.0007	0.000520	0.000508	0.000096	0.00086	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			4.94	3.95	4.84	5.03	5.02	5.54	4.47/4.99	4.62	4.62	4.71	4.71	4.4	4.47	
Specific Conductance (mS/cm)			0.499	0.573	0.517	0.460	0.657	0.339	0.51/0.42	0.394	0.375	0.484	0.414	0.307	0.239	
Turbidity (NTUs)			0	3.9	9.51	2.46	60.3	101	7.1/5.14	1.0	0	0	0	0.2	9.8	
DO (mg/L)			0	0.25	1.77	0.49	1.35	1.02		0.38	1.12	0.21	1.06	0.86	0.0	
ORP (mV)			303	306	295	230	231	205		350	264	356	231	330	331	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-102	MW-102	MW-102	MW-102	MW-102
Sample Date	Published by EPD	Concentrations	11/10/2015	5/27/2015	11/11/2014	5/13/2014	11/12/2013	5/21/2013	11/12/2012	7/28/2010 & 9/13/2010	11/7/2018	5/8/2018	10/31/2017	5/2/2017	11/8/2016	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.00827	0.0175	0.00850	0.0156	0.0112	0.00866	0.0331	0.022	0.00614	<0.01	<0.002	0.00358	0.0259	
Total Lead	0.015	0.015	0.00351	0.00292	0.00161	0.00679	0.00308	0.00251	0.00252	0.0035	< 0.001	<0.001	<0.001	<0.001	<0.001	
Total Zinc	6.0	2.0	1.1	0.925	0.263	0.977	0.909	0.937	0.158	0.66	0.159	0.161	0.0113	0.0165	0.0702	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	<0.002	0.00839	0.00791	0.00427	0.00404	0.00585	0.0328	na	0.00641	0.00627	<0.002	0.00268	0.00337	
Dissolved Lead	0.015	0.015	0.00125	0.00139	<0.001	<0.001	0.00210	<0.001	0.00201	na	< 0.001	<0.001	<0.001	<0.001	<0.001	
Dissolved Zinc	6.0	2.0	1.05	0.8	0.275	0.788	0.977	0.928	0.151	na	0.152	0.158	0.0104	0.0179	0.0337	
Total of Total Metals Concentrations			1.11178	0.94542	0.27311	0.99939	0.92328	0.94817	0.19362	0.6855	0.16514	0.161	0.0113	0.02008	0.0961	
Total of Dissolved Metals Concentrations			1.05125	0.80978	0.28291	0.79227	0.98314	0.93385	0.18581	na	0.15841	0.16427	0.0104	0.02058	0.03707	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	11	6.5	5.5	9.7	10	9.9	1.5	11	5.2	3.1	2.5	2.3	<12	
Sulfate	250 (NR)	250 (NR)	72	72	66	74	76	70	46	84	370	240	60	57	210	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049	< 0.003	<0.003	<0.003	<0.003	<0.003	
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
pH (std units)			4.86	4.65	3.84	4.43	4.65	4.71	4.62	4.32/4.5	5.02	4.64	5.34	5.67	5.32	
Specific Conductance (mS/cm)			0.339	0.218	0.254	0.295	0.275	0.402	0.161	0.22/0.26	1.01	0.497	0.193	0.201	0.593	
Turbidity (NTUs)			9.1	3.8	1.1	0.7	7.2	10.2	7.73	2.44/0.89	1.13	6.34	1.37	9.1	0.3	
DO (mg/L)			0.01	0	0.96	2.39	0.97	2.08	0.49		1.58	1.83	0.85	1.9	2.8	
ORP (mV)			76	311	330	223	3	272	289		333	256	196	186	279	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-104A	MW-104A	MW-104A	MW-104A
Sample Date	Published by EPD	Concentrations	6/2/2016	11/10/2015	5/27/2015	11/11/2014	5/13/2014	11/12/2013	5/21/2013	11/13/2012	7/29/2010 & 9/14/2010	11/8/2018	5/9/2018	11/2/2017	5/3/2017	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0139	0.00303	0.00977	0.00626	0.0152	0.0115	0.00836	0.00934	<0.005	0.00245	<0.002	<0.002	<0.002	0.00396
Total Lead	0.015	0.015	0.00125	<0.001	0.00115	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	< 0.001	<0.001	<0.001	<0.001	0.00129
Total Zinc	6.0	2.0	0.214	0.0205	0.129	0.0276	0.377	0.0342	0.0407	0.0245	<0.02	< 0.01	< 0.01	< 0.01	< 0.01	<0.0100
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.0181	<0.002	0.00726	0.00433	0.00565	<0.002	<0.002	0.0089	na	< 0.002	<0.002	<0.002	<0.002	<0.002
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	< 0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.225	<0.01	0.107	0.0277	0.293	0.0257	0.0227	0.0247	na	< 0.01	<0.01	<0.01	<0.01	<0.0100
Total of Total Metals Concentrations			0.22915	0.02353	0.13992	0.03386	0.3922	0.0457	0.04906	0.03384	0.0025	0.00245	BDL	BDL	BDL	0.00525
Total of Dissolved Metals Concentrations			0.2431	BDL	0.11426	0.03203	0.29865	0.0257	0.0227	0.0336	na	BDL	BDL	BDL	BDL	BDL
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	1.7	2.2	2.7	<2.5	2.5	3.0	4.0	2.3	5.1	< 0.25	<0.25	<0.25	<0.25	<0.25
Sulfate	250 (NR)	250 (NR)	260	46	200	190	270	280	58	45	160	110	86	85	77	77
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000097	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000049	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000097	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0049	< 0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			5.06	5.88	5.5	5.01	4.82	4.38	5.37	5.62	4.84/5.54	6.5	7.06	6.53	6.54	
Specific Conductance (mS/cm)			0.484	0.23	0.461	0.366	0.713	0.923	0.251	0.227	0.41/0.37	0.873	0.630	0.730	0.642	
Turbidity (NTUs)			7.5	1.6	7.9	0.3	499	215	6.9	0	1.11/0.03	2.8	7.21	6.44	5.6	
DO (mg/L)			0.53	4.58	1.58	0.0	3.46	3.43	4.39	3.07		0.0	0.53	0.0	0.33	
ORP (mV)			281	196	286	222	312	205	228	202		-54	-49	-82	-76	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104D	MW-104D	MW-104D
Sample Date	Published by EPD	Concentrations	11/8/2016	6/3/2016	11/11/2015	6/1/2015	11/12/2014	5/14/2014	11/14/2013	5/28/2013	11/14/2012	9/15/2010	11/8/2018	5/9/2018	11/2/2017
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005 UJ	<0.005
Total Copper	1.3	1.3	<0.002	0.00219	<0.002	<0.002	<0.002	0.0244	0.00411	0.00427	<0.002	<0.005	0.00417	<0.01 UJ	0.00386
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	0.00548	0.00158	<0.001	<0.001	<0.0015	< 0.001	<0.001 UJ	<0.001
Total Zinc	6.0	2.0	<0.01	<0.01	<0.010	0.0109	<0.010	0.0503	0.0126	0.0112	<0.01	<0.02	0.0279	<0.050 UJ	<0.010
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	na	< 0.002	<0.002	<0.002
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	< 0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	na	0.0245	<0.01	<0.01
Total of Total Metals Concentrations			BDL	0.00219	BDL	BDL	BDL	0.08018	0.01829	0.01547	BDL	BDL	0.03207	BDL	0.00386
Total of Dissolved Metals Concentrations			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0245	BDL	BDL
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<12	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	< 0.25	<0.25	<0.25
Sulfate	250 (NR)	250 (NR)	98	100	98	85	84	89	93	87	73	93	< 1.0	<1.0	<1.0
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	< 0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	< 0.003	<0.003	<0.003
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
pH (std units)			6.48	6.83	6.51	6.72	5.79	6.45	6.41	6.41	6.48	6.24	6.38	7.44	6.37
Specific Conductance (mS/cm)			0.923	0.704	0.911	0.766	0.870	0.874	0.797	0.859	0.876	0.74	2.91	2.85	2.79
Turbidity (NTUs)			0.2	0.0	9.8	0	3.6	15.7	9.13	0	0	1.49	6.2	15.8	17.3
DO (mg/L)			0.82	0.7	0	0	0.18	0.32	0.35	1.03	2	0.0	0.4	0.4	0.0
ORP (mV)			-60	-85	-60	-112	-95	-92	-128	-111	-98	-4.0	-5.0	-33.0	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-105	MW-105	
Sample Date	Published by EPD	Concentrations	5/3/2017	11/9/2016	6/6/2016	11/12/2015	6/3/2015	11/13/2014	5/15/2014	11/15/2013	5/28/2013	11/14/2012	9/15/2010	11/14/2018	5/10/2018	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0042	< 0.005	<0.005
Total Copper	1.3	1.3	0.00456	0.0507	0.00701	0.0035	0.00553	0.00367	0.00560	<0.002	0.0107	0.00816	<0.005	0.00358	0.00408 JB	
Total Lead	0.015	0.015	<0.001	0.00829	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00114	<0.0015	< 0.001	<0.001	
Total Zinc	6.0	2.0	0.0112	0.0693	0.0128	0.0103	<0.010	<0.010	0.0152	0.0327	0.0181	0.0164	<0.02	0.0109	0.0135 JB	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005
Dissolved Copper	1.3	1.3	<0.002	<0.002	0.00589	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	na	< 0.002	<0.005
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	< 0.001	<0.001
Dissolved Zinc	6.0	2.0	<0.01	<0.01	0.0106	<0.01	0.025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	na	0.0218	<0.01
Total of Total Metals Concentrations			0.01576	0.12829	0.01981	0.0138	0.00553	0.00367	0.0208	0.0327	0.0288	0.0257	BDL	0.01448	0.01758	
Total of Dissolved Metals Concentrations			BDL	BDL	0.01649	BDL	0.025	BDL	BDL	BDL	BDL	BDL	na	0.0218	BDL	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	< 2.5	<5.0	<2.5	<5	0.34	<2.5	<1.2	<0.25	<1.2	<2.5	<0.25	0.29	<0.25	
Sulfate	250 (NR)	250 (NR)	< 10	21	16	<20	<1.0	<10	<5.0	<1	<5	<10	<5	140	360	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000069	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	< 0.0005	<0.0005
Toxaphene	0.003	0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0047	< 0.003	<0.003
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.000069	BDL	BDL	BDL	BDL	BDL	
pH (std units)			6.55	6.24	6.91	6.46	6.58	6.06	6.41	6.25	6.38	6.44	6.51	6.03	6.02	
Specific Conductance (mS/cm)			2.43	2.95	2.8	3.18	3.1	3.19	2.77	3.1	2.61	2.93	3.13	0.487	0.565	
Turbidity (NTUs)			28.5	42.5	58.4	52.6	49.7	20.2	429	8.2	21.2	27.7	18	62.9	9.6	
DO (mg/L)			0.34	0.9	0.0	0	0	0.0	0.24	0.41	1.59	2.27		11.03	4.33	
ORP (mV)			-23	-2.0	-37	-30	-130	-67	-54	-69	-71	-67		121	154	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations Published by EPD 10/12/2018	Type 1 RRS Concentrations	MW-105 11/3/2017	MW-105 5/4/2017	MW-105 11/8/2016	MW-105 6/6/2016	MW-105 11/12/2015	MW-105 6/1/2015	MW-105 11/14/2014	MW-105 5/13/2014	MW-105 11/14/2013	MW-105 5/21/2013	MW-105 12/5/2012	MW-105 11/15/2012
Metals mg/L														
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00552	<0.005	na	<0.005
Total Copper	1.3	1.3	0.0117	0.00789	0.00754	0.00654	0.00455	0.00906	0.00404	0.0134	0.0112	0.00564	na	0.0114
Total Lead	0.015	0.015	0.00256	<0.001	0.00103	0.00148	<0.001	0.003	0.00154	0.00131	0.00487	<0.001	na	<0.001
Total Zinc	6.0	2.0	0.0230	0.0115	0.0244	0.0183	0.0132	0.0305	0.0109	0.0443	0.0217	0.0265	na	0.0475
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005
Dissolved Copper	1.3	1.3	<0.002	0.00456	0.00645	0.00338	0.00343	0.005	<0.002	0.00676	<0.002	<0.002	na	0.00851
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001
Dissolved Zinc	6.0	2.0	<0.01	<0.0100	0.0284	<0.01	0.0107	0.0188	<0.01	0.0381	<0.01	0.0216	na	0.0108
Total of Total Metals Concentrations			0.03726	0.01939	0.03297	0.02632	0.01775	0.04256	0.01648	0.05901	0.04329	0.03214	na	0.0589
Total of Dissolved Metals Concentrations			BDL	0.00456	0.03485	0.00338	0.01413	0.0238	BDL	0.04486	BDL	0.0216	na	0.01931
Inorganics mg/L														
Nitrate	10 (NR)	10 (NR)	0.36	<0.25	<12	<2.5	0.37	<0.25	<0.25	<0.25	<0.25	0.28	na	<0.25
Sulfate	250 (NR)	250 (NR)	180	390	140	360	110	310	97	220	160	230	na	71
Organochlorine Pesticides mg/L														
4,4'-DDD	0.0003	0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00014
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000075	<0.00005	<0.00005	<0.00005	<0.00005	0.0002
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			BDL	BDL	BDL	BDL	BDL	BDL	0.000075	BDL	BDL	BDL	BDL	0.00034
pH (std units)			5.69	5.27	6.06	5.19	5.98	5.76	5.13	5.22	5.31	5.69	6	6.13
Specific Conductance (mS/cm)			0.494	0.573	0.595	0.761	0.531	0.523	0.514	0.570	0.442	0.619	0.514	0.477
Turbidity (NTUs)			151.0	38.6	21.8	4.9	29.2	42.1	188	23.6	13.2	9.61	15.1	9.91
DO (mg/L)			0.0	2.34	2.13	0.38	0.01	0.17	1.1	2.36	1.48	0.95	2.98	4.37
ORP (mV)			170	331	119	144	174	195	131	129	127	107	63.3	75

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-105	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D
Sample Date	Published by EPD	Concentrations	9/15/2010	11/14/2018	5/11/2018	11/6/2017	5/8/2017	11/9/2016	6/7/2016	11/13/2015	6/2/2015	11/13/2014	5/19/2014	11/15/2013	5/29/2013
Metals mg/L															
Total Arsenic	0.01	0.01	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0057	0.0077	0.00473 JB	0.00373	0.00426	0.00363	0.00681	0.00382	0.00529	0.00298	0.00456	0.00897	0.00481
Total Lead	0.015	0.015	<0.0015	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00146	0.00124
Total Zinc	6.0	2.0	0.024	0.298	0.205	0.240	0.205	0.202	0.295	0.277	0.273	0.182	0.167	0.239	0.183
Dissolved Arsenic	0.01	0.01	na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	na	0.00535	<0.1	0.00435	0.00339	0.00313	0.00514	0.00269	0.00357	<0.002	0.00347	0.00492	0.00427
Dissolved Lead	0.015	0.015	na	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	na	0.286	0.206	0.229	0.0643	0.196	0.267	0.241	0.28	0.172	0.178	0.168	0.162
Total of Total Metals Concentrations			0.0297	0.3057	0.20973	0.24373	0.20926	0.20563	0.30181	0.28082	0.27829	0.18498	0.17156	0.24943	0.18905
Total of Dissolved Metals Concentrations			na	0.29135	0.206	0.23335	0.06769	0.19913	0.27214	0.24369	0.28357	0.172	0.18147	0.17292	0.16627
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<0.25	0.38	0.42	0.80	0.82	<2.5	<2.5	<2.5	0.61	0.47	0.37	<2.5	<1.2
Sulfate	250 (NR)	250 (NR)	97	280	320	310	350	400	390	380	380	440	340	390	400
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.000094	< 0.0001	<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	0.0005	0.0001	<0.000094	< 0.0001	<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	0.0023	0.0001	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.000047	0.0054	0.00063	0.0062	0.0066	0.0071	0.0082	0.0079	0.0066	0.0063	0.0066	0.0059	0.0076
alpha-Chlordane	0.002	0.002	<0.000047	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.000047	0.0018	0.00023	0.0020	0.002	0.0021	0.0024	0.0024	0.0022	0.0024	0.0022	0.0022	0.0021
delta-BHC	0.0003	0.00005(DL)	<0.000047	0.0067	0.00066	0.0060	0.0076	0.0083	0.0098	0.01	0.0079	<0.000050	0.008	0.0079	0.0075
Dieldrin	0.00002	0.0001(DL)	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.000047	0.0032	0.00038	0.0040	0.0041	0.004	0.0045	0.0041	0.0038	0.0035	0.0033	0.0031	0.0042
gamma-Chlordane	0.002	0.002	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.000047	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.000094	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.0047	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			BDL	0.0171	0.00190	0.01820	0.02030	0.02150	0.02490	0.0244	0.0205	0.0122	0.0201	0.0191	0.0214
pH (std units)			5.57	6.15	6.33	6.15	6.14	6.17	6.53	6.09	6.46	5.84	6.1	6.05	6.09
Specific Conductance (mS/cm)			0.36	0.79	0.715	0.785	0.994	1.08	0.784	1.02	0.963	1.29	1.04	1.15	1.25
Turbidity (NTUs)			9.7	0	0.37	0	0	0	0	0	0	0	0	0	0
DO (mg/L)			0	0	0.8	0	0.83	1.7	0	0.11	0	7.88	1.43	3.54	2.25
ORP (mV)			188	116	144	142	160	162	186	172	-73	206	111	129	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-106D	MW-106D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D
Sample Date	Published by EPD	Concentrations	11/15/2012	9/15/2010	11/9/2018	5/9/2018	11/3/2017	5/4/2017	11/9/2016	6/6/2016	11/12/2015	6/1/2015	11/13/2014	5/21/2014	11/18/2013
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.00471	<0.005	0.00282	<0.01	0.00267	0.0103	0.00439	0.0118	0.00359	0.00511	0.00407	0.00754	0.0101
Total Lead	0.015	0.015	<0.001	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00203
Total Zinc	6.0	2.0	0.16	0.11	<0.01	<0.05	0.0125	0.0215	0.0114	0.0261	0.0117	<0.01	0.0235	0.0231	0.0176
Dissolved Arsenic	0.01	0.01	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.00233	na	0.00202	<0.002	<0.002	0.00533	0.00436	0.00948	0.00207	0.00328	<0.002	0.00458	0.012
Dissolved Lead	0.015	0.015	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00213
Dissolved Zinc	6.0	2.0	0.149	na	<0.01	<0.01	0.0146	<0.01	<0.01	<0.01	<0.01	<0.01	0.0197	0.0141	0.0179
Total of Total Metals Concentrations			0.16471	0.11	0.00282	BDL	0.01517	0.0318	0.01579	0.0379	0.01529	0.00511	0.02757	0.03064	0.02973
Total of Dissolved Metals Concentrations			0.15133		0.00202	BDL	BDL	0.01993	0.00436	0.00948	0.00207	0.00328	0.0197	0.01868	0.03203
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	1.4	1.4	2.5	2.4	2.2	2.3	2.3	2.4	3.2	3.5	4.2	5.2	4.5
Sulfate	250 (NR)	250 (NR)	380	430	86	91	92	110	140	140	160	170	200	180	210
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.000094	<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	0.0005	0.0001	<0.0001	<0.000094	<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	0.0023	0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0068	0.0082	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0019	0.0019	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
delta-BHC	0.0003	0.00005(DL)	0.0082	0.01	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000089	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.0043	0.0051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.000094	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.0047	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.0212	0.0252	BDL	BDL	BDL	BDL	BDL	0.000089	BDL	BDL	BDL	BDL	BDL
pH (std units)			6.2	6.28	5.61	6.19	5.79	5.89	5.78	5.96	6.46	6.41	5.21	5.6	5.60
Specific Conductance (mS/cm)			1.27	1.25	0.362	0.273	0.323	0.302	0.465	0.361	0.455	0.443	0.641	0.678	0.678
Turbidity (NTUs)			0.9	0	3.6	6.08	0.0	8.1	4.1	0.3	0	1.6	0.2	4	0
DO (mg/L)			0.49		1.70	2.33	1.76	3.34	4.34	0.54	27.7	6.92	2.28	2.35	1.67
ORP (mV)			-53		244	175	193	347	180	167	190	235	216	208	223

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-107D	MW-107D	MW-107D	MW-107D	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108
Sample Date	Published by EPD	Concentrations	5/22/2013	12/5/2012	11/19/2012	9/15/2010	11/8/2018	5/10/2018	11/2/2017	5/3/2017	11/10/2016	6/2/2016	11/11/2015	5/28/2015	11/12/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	na	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.00257	na	0.00614	<0.005	0.186	0.179 J	0.174	0.231	0.443	0.2	0.17	0.151	0.174
Total Lead	0.015	0.015	<0.001	na	<0.001	<0.0015	< 0.001	<0.001	<0.001	<0.001	0.00396	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	0.0155	na	0.0151	<0.02	2.32	2.37	2.32	2.78	3.540	2.420	1.96	2.02	2.470
Dissolved Arsenic	0.01	0.01	<0.005	na	<0.005	na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.00295	na	0.00574	na	0.199	0.198 J	0.164	0.206	0.242	0.238	0.182	0.161	0.138
Dissolved Lead	0.015	0.015	<0.001	na	<0.001	na	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	<0.01	na	0.0151	na	2.51	2.4	2.19	2.49	3.26	2.69	2.22	2.24	2.3
Total of Total Metals Concentrations			0.01807		0.02124	BDL	2.506	2.549	2.494	3.011	3.98696	2.62	2.13	2.171	2.644
Total of Dissolved Metals Concentrations			0.00295		0.02084	na	2.709	2.598	2.354	2.696	3.502	2.928	2.402	2.401	2.438
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	6.0	na	5.0	4.7	0.26	<0.25	<0.25	0.28	0.29	<0.25	<0.25	<0.25	<0.25
Sulfate	250 (NR)	250 (NR)	230	na	200	190	220	260	240	230	330	340	300	260	200
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	0.00019	0.00014	<0.0001	<0.0001	<0.0001	0.0001	0.00011	0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000048	0.003	0.00067	0.0029	0.0025	0.0052	0.0073	0.0055	0.0063	0.0029
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.000048	0.0012	0.0015	0.00093	0.0015	0.0014	0.0016	0.0012	0.0012	0.0011
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	0.000056	<0.000048	0.0014	0.0001	0.00093	0.0042	0.0016	0.0018	0.0033	0.0037	0.0072
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	0.00012	0.00017	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.000048	0.00017	0.00029	0.00020	0.00018	0.00031	0.00028	0.00043	0.00046	0.00018
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.0048	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005
Total Pesticides			BDL	BDL	0.000056	BDL	0.00596	0.00270	0.00496	0.00838	0.00863	0.01125	0.01054	0.01176	0.01138
pH (std units)			5.68	5.53	5.76	5.52	5.48	5.32	5.23	5.17	4.82	5.57	5.81	5.63	5.15
Specific Conductance (mS/cm)			0.699	0.646	0.643	0.58	0.493	0.5	0.514	0.588	0.757	0.633	0.603	0.498	0.334
Turbidity (NTUs)			0	0	0.02	0	0.5	0	1.0	0.7	5.8	7.6	9.2	7.2	8.7
DO (mg/L)			1.65	0.95	0.06		0	0.77	0.29	0.84	1.0	0.0	0	0.01	0
ORP (mV)			200	213.8	202		250	182	208	202	311	249	245	296	333

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-108	MW-108	MW-108	MW-108	MW-108	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109
Sample Date	Published by EPD	Concentrations	5/15/2014	11/13/2013	5/23/2013	11/13/2012	7/29/2010 & 9/14/2010	11/15/2018	5/15/2018	11/7/2017	5/9/2017	11/10/2016	6/8/2016	11/16/2015	6/3/2015
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.0025	0.0617	0.206	0.0602	0.0731	0.0296	0.278	0.116	0.181
Total Copper	1.3	1.3	0.155	0.241	0.225	0.242	0.3	0.244	0.039	0.113	0.109	0.164	0.0351	0.0822	0.0782
Total Lead	0.015	0.015	<0.001	0.00253	<0.001	<0.001	<0.0015	0.827	0.453	0.668	0.69	0.636	0.707	0.901	1.02
Total Zinc	6.0	2.0	2.24	2.86	2.75	2.81	3.6	40.3	21.9	28.7	26.2	27	18.6	23.4	25.7
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	na	0.04	0.199	0.0609	0.0603	0.0159	0.243	0.112	0.158
Dissolved Copper	1.3	1.3	0.158	0.208	0.2	0.239	na	0.249	0.0302	0.131	0.0881	0.158	0.0348	0.0656	0.0732
Dissolved Lead	0.015	0.015	<0.001	0.00222	<0.001	<0.001	na	0.102	0.00307	0.316	0.28	0.162	0.00826	0.71	0.565
Dissolved Zinc	6.0	2.0	2.33	2.33	2.44	2.58	na	39.5	21	28.2	25.3	25.8	17.8	19	29.2
Total of Total Metals Concentrations			2.395	3.10353	2.975	3.052	3.9	41.4327	22.598	29.5412	27.0721	27.8296	19.6201	24.4992	26.9792
Total of Dissolved Metals Concentrations			2.488	2.54022	2.64	2.819	na	39.891	21.23227	28.7079	25.7284	26.1359	18.08606	19.8876	29.962
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	0.35	<1.2	<1.2	0.66	0.42	2.0	<0.25	1.4	0.96	7.4	<2.5	<2.5	<2.5
Sulfate	250 (NR)	250 (NR)	260	93	220	210	320	1400	1500	1200	1500	1400	1400	1400	1400
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0048	0.0021	0.0028	0.0009	0.0058	0.033	0.045	0.031	0.035	0.038	0.032	0.034	0.029
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0018	0.00081	0.00077	0.00051	0.0024	0.0044	0.0039	0.0042	0.004	0.0047	0.0028	0.0035	0.0033
delta-BHC	0.0003	0.00005(DL)	0.0059	0.0006	0.00044	0.00033	0.0018	0.0044	0.0037	0.0046	0.0042	0.0054	0.003	0.0038	0.0032
Dieldrin	0.00002	0.0001(DL)	<0.0001	0.00035	<0.0001	<0.0001	0.000098 P	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00025	0.00017	0.00022	0.000085	0.0002 P	0.02	0.026	0.019	0.021	0.022	0.018	0.02	0.018
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.0048	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Total Pesticides			0.01275	0.00403	0.00423	0.001825	0.0103	0.06180	0.07860	0.05880	0.06420	0.07010	0.05580	0.0613	0.0535
pH (std units)			5.27	4.55	4.71	4.74	4.3/5.14	4.76	4.78	4.69	4.64	4.64	4.16	4.56	4.5
Specific Conductance (mS/cm)			0.684	0.566	0.566	0.533	0.72/0.68	2.62	2.46	2.55	2.6	2.38	2.85	2.7	2.42
Turbidity (NTUs)			10.1	4.64	0	9	2.15/0.8	0	0	3.2	0	0.0	0.0	0	3.2
DO (mg/L)			1.92	0.46	0.84	0.98		0	0.38	1.57	0.82	1.44	0.5	0	0
ORP (mV)			257	238	299	251		217	147	176	193	177	136	160	206

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110
Sample Date	Published by EPD	Concentrations	11/18/2014	5/15/2014	11/15/2013	5/23/2013	11/16/2012	9/14/2010	11/9/2018	5/11/2018	11/2/2017	5/5/2017	11/10/2016	6/3/2016	11/11/2015
Metals mg/L															
Total Arsenic	0.01	0.01	0.0342	0.292	0.0533	0.253	0.211	0.061	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.178	0.0817	0.0737	0.00569	0.0735	0.079	0.401	0.386	0.314	0.423	0.862	0.311	0.284
Total Lead	0.015	0.015	0.932	3.83	0.738	0.358	1.53	0.61	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	25.3	21.2	35.5	14.3	18.7	25	5.76	5.26	4.20	5.34	6.58	3.87	3.74
Dissolved Arsenic	0.01	0.01	0.0258	0.208	0.0382	0.22	0.16	na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.241	0.0103	0.0693	0.00505	0.0218	na	0.418	0.396	0.315	0.306	0.3	0.285	0.293
Dissolved Lead	0.015	0.015	0.480	0.224	0.285	0.0175	0.436	na	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	25.1	22.2	25.6	12.4	17.6	na	5.61	5.19	4.34	3.83	3.61	3.61	3.96
Total of Total Metals Concentrations			26.4442	25.4037	36.365	14.91669	20.5145	25.75	6.161	5.646	4.514	5.763	7	4	4.024
Total of Dissolved Metals Concentrations			25.8468	22.6423	25.9925	12.64255	18.2178	na	6.028	5.586	4.655	4.136	3.91	3.895	4.253
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<12	<1.2	9.6	<12	<0.25	0.38	2.2	2.3	2.8	3.8	4	4.7	4.0
Sulfate	250 (NR)	250 (NR)	1200	1500	1500	1300	1100	1300	290	320	290	320	320	270	310
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.033	0.033	0.024	0.03	0.03	0.0028	0.0016	0.00042	0.00099	0.0012	0.00052	0.00041	0.0009
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0046	0.0033	0.0038	0.0035	0.0037	< 0.00048	0.00049	0.00052	0.00031	0.00036	0.00035	0.00025	0.00032
delta-BHC	0.0003	0.00005(DL)	0.0058	0.0039	0.004	0.0037	0.0049	< 0.00048	0.0026	0.0007	0.0016	0.0018	0.0013	0.00071	0.0018
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.022	0.019	0.015	0.017	0.024	0.0019	0.0015	0.00043	0.0012	0.0012	0.00046	0.00044	0.001
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	< 0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.00048	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005
Total Pesticides			0.0654	0.0592	0.0468	0.0542	0.0626	0.0047	0.00619	0.00207	0.00410	0.00456	0.00263	0.00181	0.0040
pH (std units)			4.31	4.19	4.8	4.65	4.74	4.56	5.21	5.1	5.18	5.12	5.02	5.01	5.68
Specific Conductance (mS/cm)			2.86	2.86	2.94	2.72	2.81	2.71	0.628	0.634	0.649	0.805	0.757	0.787	0.703
Turbidity (NTUs)			0	4.8	0	3.95	0	0.1	0	0	0.0	0	8.0	0.0	0
DO (mg/L)			2.08	0.88	0.72	0.7	0.58		0	0.6	0.0	0.88	0.0	0.28	26.7
ORP (mV)			229	179	190	73	130		246	169	172	158	169	212	172

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-111	MW-111	MW-111	MW-111	
Sample Date	Published by EPD	Concentrations	5/29/2015	11/12/2014	5/15/2014	1/8/2014	10/9/2013	7/16/2013	4/16/2013	11/14/2012	7/29/2010 & 9/14/2010	11/15/2018	5/15/2018	11/8/2017	5/9/2017	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	
Total Copper	1.3	1.3	0.357	0.352	0.323	0.395	0.376	0.396	0.4	0.372	0.39	0.107	0.0391	0.0403	0.0306	
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0015	0.0054	<0.001	<0.001	<0.001	
Total Zinc	6.0	2.0	5.09	5.1	5.29	6.29	5.05	5.69	6.92	5.9	5.7	5.44	6.82	8.38	6.21	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	0.35	0.291	0.31	0.405	0.323	0.381	0.38	0.375	na	0.0529	0.0277	0.0344	0.022	
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	< 0.001	<0.001	<0.001	<0.001	
Dissolved Zinc	6.0	2.0	4.81	4.89	4.54	5.28	4.47	5.19	6.25	4.81	na	5.59	6.18	6.24	5.86	
Total of Total Metals Concentrations			5.447	5.452	5.613	6.685	5.426	6.086	7.32	6.272	6.0915	5.5524	6.8591	8.4203	6.2406	
Total of Dissolved Metals Concentrations			5.16	5.181	4.85	5.685	4.793	5.571	6.63	5.185	na	5.6429	6.2077	6.2744	5.882	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	3.9	3.5	4	4.1	2.9	4.0	4.4	4.8	9.8	< 0.25	<0.25	<0.25	<0.25	
Sulfate	250 (NR)	250 (NR)	320	250	300	330	270	310	340	300	310	370	450	470	490	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	0.00076	0.0005	0.00043	0.00088	0.00045	0.0006	0.0012	0.00069	0.00047	0.023	0.032	0.020	0.018	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	0.00032	0.00033	0.00031	0.00035	0.00027	0.0004	0.00036	0.00044	0.00043	0.0058	0.0067	0.0062	0.0055	
delta-BHC	0.0003	0.00005(DL)	0.0015	0.0014	0.0011	0.0017	0.00089	0.0014	0.0022	0.0013	0.00088	0.048	0.054	0.051	0.046	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000095	0.00011	0.00012	0.00015	0.00014	
gamma-BHC	0.0002	0.0002	0.00086	0.0006	0.00057	0.0012	0.00054	0.0008	0.0013	0.00067	0.00055	0.02	0.036	0.021	0.018	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0048	< 0.003	<0.003	<0.003	<0.003	
Total Pesticides			0.0034	0.0028	0.0024	0.0041	0.0022	0.0032	0.00506	0.0031	0.00233	0.09691	0.12882	0.09835	0.08764	
pH (std units)			5.62	5.27	5.19	5.16	4.85	5.13	5.19	5.30	5.03/5.04	5.95	6.26	5.76	5.74	
Specific Conductance (mS/cm)			0.631	0.498	0.844	0.697	0.731	0.765	0.84	1.02	0/0.94	0.868	0.804	1.09	1.22	
Turbidity (NTUs)			2.7	4.1	0	0.92	0.22	10.7	1.2	0	0.22/0.6	69.6	0.91	0.0	0	
DO (mg/L)			0	0	1.07	0.58	0.58	0.44	0.51	0.41		0	0.72	0.0	0.87	
ORP (mV)			268	310	149	177.7	208	219.4	235.3	143		120	106	128	120	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111
Sample Date	Published by EPD	Concentrations	11/10/2016	6/8/2016	11/16/2015	6/3/2015	11/18/2014	5/19/2014	1/8/2014	10/9/2013	7/16/2013	4/17/2013	11/16/2012
Metals mg/L													
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0225	0.024	0.0241	0.0283	0.0351	0.0357	0.0242	0.0197	0.0231	0.0276	0.0255
Total Lead	0.015	0.015	0.00221	<0.001	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	4.78	4.24	5.45	5.4	4.96	7.17	7.3	4.75	5.42	6.44	5.1
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01
Dissolved Copper	1.3	1.3	0.0217	0.0228	0.032	0.0503	0.0336	0.0299	0.0237	0.0153	0.0218	0.0271	0.0206
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Dissolved Zinc	6.0	2.0	4.48	3.99	4.36	5.65	4.55	5.47	5.40	4.31	4.96	6.0	4.83
Total of Total Metals Concentrations			4.80471	4.264	5.4741	5.4283	4.9951	7.2068	7.3242	4.7697	5.4431	6.4676	5.1255
Total of Dissolved Metals Concentrations			4.5017	4.0128	4.392	5.7003	4.5836	5.4999	5.4237	4.3253	4.9818	6.0271	4.8506
Inorganics mg/L													
Nitrate	10 (NR)	10 (NR)	<2.5	<2.5	<5.0	<0.25	<5.0	0.3	<1.2	<2.5	<1.2	<1.2	0.4
Sulfate	250 (NR)	250 (NR)	450	430	500	560	450	500	510	440	440	480	440
Organochlorine Pesticides mg/L													
4,4'-DDD	0.0003	0.0001	<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	0.0005	0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.017	0.0053	0.019	0.01	0.030	0.039	0.014	0.015	0.02	0.012	0.012
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0059	0.0052	0.0066	0.0043	0.0069	0.0058	0.0069	0.0048	0.0051	0.0045	0.0051
delta-BHC	0.0003	0.00005(DL)	0.046	0.014	0.059	0.034	0.11	0.1	0.052	0.065	0.049	0.021	0.021
Dieldrin	0.00002	0.0001(DL)	0.00015	0.00012	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.018	0.0079	0.03	0.017	0.06	0.078	0.029	0.028	0.035	0.014	0.0082
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00025	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.08705	0.03252	0.1146	0.0653	0.2069	0.2228	0.10190	0.11280	0.10910	0.0515	0.0463
pH (std units)			5.61	5.63	6.11	5.96	5.34	5.76	5.74	5.55	5.74	5.81	5.88
Specific Conductance (mS/cm)			1.01	1.18	1.27	1.18	1.43	1.39	1.052	1.079	1.113	1.207	1.32
Turbidity (NTUs)			0.0	0.0	0.7	0	0.7	0	0.12	0.26	3.7	1.2	0
DO (mg/L)			1.78	0.56	0.7	0	0.0	1.21	0.73	0.94	0.65	0.6	0.46
ORP (mV)			83	108	98	107	104	107	129.1	167.9	180.1	151.6	69

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-111 7/29/2010 & 9/14/2010	MW-112 11/8/2018	MW-112 5/10/2018	MW-112 11/1/2017	MW-112 5/2/2017	MW-112 11/9/2016	MW-112 6/2/2016	MW-112 11/10/2015	MW-112 5/28/2015	MW-112 11/11/2014	MW-112 5/14/2014	MW-112 11/13/2013	MW-112 5/22/2013
Metals mg/L															
Total Arsenic	0.01	0.01	<0.0025	0.0117	0.0109	0.0109	0.0121	0.0116	0.00849	0.00937	0.00783	0.0117	0.00684	0.013	0.0115
Total Copper	1.3	1.3	0.039	0.0462	0.0525	0.0339	0.0383	0.0436	0.0421	0.0311	0.0504	0.0462	0.0536	0.0775	0.0794
Total Lead	0.015	0.015	<0.0015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00109	0.00132	0.0026
Total Zinc	6.0	2.0	4.4	1.45	2.69	1.00	1.01	0.965	1.50	1.12	2.13	1.10	1.62	1.61	2.45
Dissolved Arsenic	0.01	0.01	na	0.0111	<0.005	0.00987	0.0108	0.011	0.00906	0.0101	0.00969	0.0121	0.00651	0.0106	0.00747
Dissolved Copper	1.3	1.3	na	0.0515	0.0487	0.0277	0.032	0.0383	0.0439	0.0324	0.0455	0.0415	0.0521	0.0655	0.0499
Dissolved Lead	0.015	0.015	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	na	1.55	2.46	0.922	0.935	0.927	1.570	1.21	2.09	1.130	1.65	1.26	2.35
Total of Total Metals Concentrations			4.439	1.5079	2.7534	1.0448	1.0604	1.0202	1.55059	1.1605	2.1882	1.1579	1.6815	1.7018	2.5435
Total of Dissolved Metals Concentrations			na	1.6126	2.5087	0.95957	0.9778	0.9763	1.62296	1.2525	2.14519	1.1836	1.70861	1.3361	2.40737
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<0.25	3.5	4.1	2.1	<12	0.63	<0.25	<2.5	1.5	<2.5	0.43	<2.5	1.8
Sulfate	250 (NR)	250 (NR)	240	190	410	250	140	150	330	250	370	170	620	480	580
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.014	0.00035	0.00084	0.00033	0.00054	0.00049	0.0017	0.0031	0.00078	0.00091	0.00021	0.00034	0.013
alpha-Chlordane	0.002	0.002	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.01	0.0017	0.00024	0.00083	0.004	0.00099	0.044	0.003	0.0068	0.0021	0.022	0.0063	0.016
delta-BHC	0.0003	0.00005(DL)	0.03	0.0001	<0.00005	0.000073	0.00027	0.00011	0.0019	0.0026	0.00064	0.00021	0.00026	0.0002	0.015
Dieldrin	0.00002	0.0001(DL)	0.00014	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00028	<0.0001	<0.0001	<0.00010	0.00026	<0.0001	0.0005
gamma-BHC	0.0002	0.0002	<0.01	<0.00005	0.00018	0.000054	0.000091	0.000068	0.00077	0.00095	0.00014	0.00013	0.0007	0.000093	0.0056
gamma-Chlordane	0.002	0.002	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.100	<0.100	<0.005	<0.005
Total Pesticides			0.04414	0.00215	0.00126	0.00129	0.00490	0.00166	0.04865	0.00965	0.00836	0.00335	0.02766	0.006933	0.0501
pH (std units)			5.79	5.95	5.64	5.45	5.5	5.98	5.54	6.52	6.08	5.87	5.53	5.50	5.51
Specific Conductance (mS/cm)			1.22	0.534	0.794	0.506	0.449	0.529	0.835	0.673	0.849	0.354	1.23	1.18	1.6
Turbidity (NTUs)			0.81	3.6	0	0.96	7.1	2.4	3.9	2.9	0	3.0	3	5.81	9.9
DO (mg/L)			0	0.84	0	3.59	0.5	3.02	0	0	0	0.0	2.07	0.47	1.58
ORP (mV)			201	138	213	206	184	224	167	174	189	177	185	149	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-112 11/13/2012	MW-112 7/28/2010 & 9/13/2010	MW-113 11/15/2018	MW-113 5/14/2018	MW-113 11/6/2017	MW-113 5/8/2017	MW-113 11/10/2016	MW-113 6/7/2016	MW-113 11/16/2015	MW-113 6/2/2015	MW-113 11/17/2014	MW-113 5/15/2014	MW-113 11/15/2013	
Metals mg/L																
Total Arsenic	0.01	0.01	0.0144	0.015	< 0.1	0.00555	<0.005	<0.005	<0.005	<0.005	0.0431	0.0177	0.039	<0.005	0.0135	
Total Copper	1.3	1.3	0.0546	0.054	12.1	10.4	9.16	10	16.8	18.9	11.4	13.2	19.5	26.7	19.4	
Total Lead	0.015	0.015	0.0011	<0.0015	< 0.02	0.00519	0.00279	0.00368	0.00328	0.00538	<0.001	0.0185	0.00931	0.0111	0.0166	
Total Zinc	6.0	2.0	0.563	1	83.4	57.5 J	68.8	73.5	94.1	92.2	65.6	4.1	124	134	99.9	
Dissolved Arsenic	0.01	0.01	0.0134	na	< 0.1	0.00585	<0.005	<0.005	<0.005	<0.005	0.0189	0.05	<0.005	<0.005		
Dissolved Copper	1.3	1.3	0.0441	na	12.5	9.08	9.11	9.8	14.7	21.1	11.9	12.4	25.2	26.4	12.9	
Dissolved Lead	0.015	0.015	<0.001	na	< 0.02	0.00506	<0.001	0.0029	0.00303	0.00424	0.00325	0.00545	0.0116	0.0104	0.0104	
Dissolved Zinc	6.0	2.0	0.559	na	86	70 J	66.3	23.9	93.3	122	70	72.2	146	132	92.3	
Total of Total Metals Concentrations			0.6331	1.069	95.5	67.91074	77.96279	83.50368	110.90328	111.10538	77.0431	17.3362	143.54831	160.7111	119.3301	
Total of Dissolved Metals Concentrations			0.6165	na	98.5	79.09091	75.41	33.7029	108.00303	143.10424	81.90325	84.62435	171.2616	158.4104	105.2104	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	1.5	0.89	< 12	2.6 JH	2.8	2.2	<5.0	<2.5	<25	<2.5	1.2	<1.2	<2.5	
Sulfate	250 (NR)	250 (NR)	100	220	1300	1000 JL	890	1400	1800	1600	1400	810	2000	2600	2500	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	< 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	0.0005	0.0001	<0.0001	<0.0001	< 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	0.0023	0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	0.000076	<0.0025	0.00041	0.0001 JL	0.00021	0.00031	0.00045	0.00075	0.0002	0.00025	0.00032	0.00048	0.00029	
alpha-Chlordane	0.002	0.002	<0.00005	<0.0005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	0.00039	0.031	0.0006	0.00039 JL	0.00036	0.0008	0.00096	0.0012	0.00069	0.00076	0.00093	0.0010	0.00067	
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.0025	0.00039	0.000096 JL	0.000096	0.00027	0.00051	0.00062	0.00018	0.00017	0.00026	0.00029	0.00018	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	0.00012	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	<0.00005	<0.0005	0.00059	0.00061	0.00015 JL	0.00016	0.00034	0.00039	0.00068	0.00024	0.00026	0.00033	0.00045	0.00029
gamma-Chlordane	0.002	0.002	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0001	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	
Total Pesticides			0.000466	0.03171	0.00201	0.00074	0.00083	0.00172	0.00231	0.00325	0.00131	0.00144	0.00184	0.00222	0.00143	
pH (std units)			5.49	5.52/5.51	3.71	3.90	3.72	3.75	3.59	3.22	3.64	3.68	3.45	3.31	3.56	
Specific Conductance (mS/cm)			0.731	0.55/0.57	1.91	1.37	1.56	1.98	2.64	2.62	2.156	1.89	3.37	3.47	3.36	
Turbidity (NTUs)			9.89	5.1/4.04	0	5.69	8.6	4.5	0.7	0.8	9.2	3.3	16.1	15.1		
DO (mg/L)			0.78		0.59	0.53	0.0	0.41	1.1	1.07	0.17	0.09	0.0	0.47	0.42	
ORP (mV)			143		412	347	371	421	387	371	421.6	366	378	404	349	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-113	MW-113	MW-113	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114
Sample Date	Published by EPD	Concentrations	5/24/2013	11/15/2012	9/15/2010	11/15/2018	5/14/2018	11/6/2017	5/8/2017	11/10/2016	6/7/2016	11/16/2015	6/2/2015	11/18/2014	5/15/2014
Metals mg/L															
Total Arsenic	0.01	0.01	0.0235	<0.005	0.023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	20.3	12.9	15	1.68	1.93	1.59	1.65	1.67	1.22	1.57	1.48	1.55	1.28
Total Lead	0.015	0.015	0.0052	0.00812	0.0019	0.00126	0.00197	<0.001	<0.001	0.00124	0.00142	0.00295	0.00159	0.00200	0.00388
Total Zinc	6.0	2.0	114	69.5	95	8.13	8.47 J	9.04	8.39	7.82	4.78	7.53	7.93	6.26	8.12
Dissolved Arsenic	0.01	0.01	0.0234	<0.025	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	21.8	11.9	na	1.66	1.36	1.48	1.18	1.55	1.16	1.32	1.51	1.53	1.15
Dissolved Lead	0.015	0.015	0.00387	0.00785	na	<0.001	0.00138	<0.001	<0.001	<0.001	<0.001	0.00247	<0.001	0.00200	0.00252
Dissolved Zinc	6.0	2.0	124	71.4	na	8.29	9.36 J	7.97	1.86	7.3	4.58	5.63	7.18	6.00	6.00
Total of Total Metals Concentrations			134.3287	82.40812	110.0249	9.81126	10.40197	10.63	10.04	9.49124	6.00142	9.10295	9.41159	7.812	9.40388
Total of Dissolved Metals Concentrations			145.82727	83.30785	na	9.95	10.72138	9.45	3.04	8.85	5.74	6.95247	8.69	7.532	7.15252
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<25	1.8	1.6	21	25	24	18	16	21	27	29	16	29
Sulfate	250 (NR)	250 (NR)	2100	1700	2100	430	510	480	490	520	700	500	480	380	440
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.00042	0.0004	0.0014	0.00029	0.00019	0.00033	0.00084	0.00072	0.00017	0.00018	0.00015	0.0001	0.00022
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.00087	0.00078	0.0018	0.0022	0.0013	0.002	0.0019	0.0033	0.002	0.0022	0.0018	0.0022	0.0022
delta-BHC	0.0003	0.00005(DL)	0.00018	0.00027	0.0016	0.00034	0.00082	0.00013	<0.00005	<0.00005	0.000088	0.000082	0.000066	0.00013	0.00011
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.000094	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00041	0.00037	0.0012	0.00036	0.00086	0.00017	0.00012	0.00087	0.00089	0.00014	0.00012	0.000091	0.00011
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	na	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.000047	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.000094	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.0047	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005
Total Pesticides			0.00188	0.00182	0.006	0.00319	0.0017	0.003	0.002	0.00346	0.00235	0.003	0.002	0.003	0.003
pH (std units)			3.65	3.7	3.69	3.98	3.99	3.94	3.91	3.83	3.54	4.09	4.03	3.43	3.62
Specific Conductance (mS/cm)			3.0	2.69	2.58	1.16	0.911	1.1	0.8	1.23	1.12	1.09	0.944	1.23	1.28
Turbidity (NTUs)			110	26.5	5.21	48.8	33.2	4.2	0.37	3.5	7.6	0	7.4	4.2	5.6
DO (mg/L)			2.95	0.48		0.13	0.21	0.04	4.7	0.7	0.85	0	0	0.0	0.54
ORP (mV)			201	226		333	263	368	417	373	396	226	367	325	298

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-114	MW-114	MW-114	MW-114	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115
Sample Date	Published by EPD	Concentrations	11/14/2013	5/24/2013	11/15/2012	9/14/2010	11/12/2018	5/10/2018	11/3/2017	5/5/2017	11/10/2016	6/7/2016	11/16/2015	6/1/2015	11/14/2014
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	1.80	1.93	1.6	2.2	2.84	3.47	3.4	4.4	5.3	4.17	3.51	5.11	4.3
Total Lead	0.015	0.015	0.00325	<0.001	0.00299	0.004	< 0.001	0.00175	<0.001	<0.001	0.0012	0.00393	0.00168	0.00205	0.00632
Total Zinc	6.0	2.0	9.04	9.74	8.66	8.7	7.24	8.36	9.31	12.5	14	14.4	8.47	11.4	18.6
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.01	na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	1.51	1.82	1.55	na	2.91	2.7	1.73	4.28	4.79	3.76	3.48	4.16	4.210
Dissolved Lead	0.015	0.015	0.00223	<0.001	0.00281	na	< 0.001	0.00157	<0.001	<0.001	<0.001	0.00139	0.0013	0.00145	0.00862
Dissolved Zinc	6.0	2.0	6.25	9.17	7.96	na	7.48	6.53	8.42	10.9	13.4	9.98	7.6	11.2	18.20
Total of Total Metals Concentrations			10.84325	11.67	10.26299	10.904	10.08	11.83175	12.71	16.9	19.3012	18.57393	11.98168	16.51205	22.90632
Total of Dissolved Metals Concentrations			7.76223	10.99	9.51281	na	10.39	9.23157	10.15	15.18	18.19	13.74139	11.0813	15.36145	22.41862
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	69	35	31	19	0.97	0.92	0.66	0.98	<5.0	3	<12	1.3	1.7
Sulfate	250 (NR)	250 (NR)	850	450	460	290	590	620	590	650	720	860	690	780	650
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.00023	0.00024	0.00018	0.00024	0.0002	0.00025	0.00033	0.00033	0.00026	0.00015	0.00033	0.00028	0.00026
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.0005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0011	0.00064	0.00074	0.0046	0.00033	0.00029	0.00038	0.00036	0.00027	0.00014	0.00037	0.00033	0.00026
delta-BHC	0.0003	0.00005(DL)	0.000095	<0.00005	0.000077	0.00011 P	< 0.00005	<0.00005	<0.00005	<0.00005	0.000051	<0.00005	<0.00005	0.000058	0.000073
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00012	0.00012	0.00012	0.00027	< 0.00005	<.00005	0.000067	0.0001	0.000067	<0.00005	0.000076	0.000079	0.000076
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0001	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.005
Total Pesticides			0.002	0.001	0.001117	0.00522	0.00053	0.00054	0.00078	0.00079	0.00065	0.00029	0.00078	0.00075	0.00067
pH (std units)			3.92	4.04	4.08	4.05	3.61	3.95	3.79	3.7	3.69	3.47	3.68	3.69	3.30
Specific Conductance (mS/cm)			1.31	1.36	1.38	1.13	1.07	0.843	0.894	0.999	1.26	1.34	1.22	1.07	1.51
Turbidity (NTUs)			3.72	1.72	5.3	4.97	0	0	0.0	0.12	0.0	0.0	0.11	0	0.1
DO (mg/L)			0.43	0.87	0.65		0.25	0.27	0.03	5.44	0.6	2.13	3.59	0	0.0
ORP (mV)			269	352	244		4.89	3.58	353	463	431	411	4.5	412	422

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-115	MW-115	MW-115	MW-115	MW-115	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	
Sample Date	Published by EPD	Concentrations	5/16/2014	11/13/2013	5/24/2013	11/15/2012	9/14/2010	11/9/2018	5/14/2018	11/2/2017	5/4/2017	11/10/2016	6/3/2016	11/12/2015	5/28/2015
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	6.07	3.91	3.45	4.04	6.7	2.54	2.19	1.43	3.5	3.44	3.07	1.65	1.85
Total Lead	0.015	0.015	0.00116	0.0132	0.00124	0.00292	<0.0015	0.0014	<0.001	<0.001	0.00352	0.00109	0.00195	0.00273	0.00187
Total Zinc	6.0	2.0	15.1	12.3	9.56	9.96	20	8.48	4.59	4.25	8.7	8.79	7.68	3.86	5.06
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.01	na	< 0.005	<0.005 UL	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	4.22	2.78	3.37	3.57	na	2.83	1.72	1.5	3.47	3.22	2.94	1.68	1.88
Dissolved Lead	0.015	0.015	<0.001	0.0126	0.0011	0.00601	na	< 0.001	<0.001 UL	<0.001	0.00325	<0.001	0.00154	0.00255	0.00109
Dissolved Zinc	6.0	2.0	16.4	7.66	10.7	9.76	na	7.95	4.87	4.51	4.45	8.26	7.65	4.04	5.14
Total of Total Metals Concentrations			21.17116	16.2232	13.01124	14.00292	26.7	11.0214	6.78	5.68	12.20352	12.23109	10.75195	5.51273	6.91187
Total of Dissolved Metals Concentrations			20.62	10.4526	14.0711	13.33601	na	10.78	6.59	6.01	7.92325	11.48	10.59154	5.72255	7.02109
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<5.0	<2.5	<2.5	2.2	3.2	39	16	34	51	65	48	37	14
Sulfate	250 (NR)	250 (NR)	880	720	580	730	430	470	510	430	560	510	700	430	500
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.00027	0.00016	0.00016	0.00028	0.00024	< 0.00005	<0.00005	<0.00005	<0.00005	0.00015	<0.00005	<0.00005	<0.00005
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00047	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.00019	0.00018	0.00026	0.00026	0.00013	0.0003	0.0002	0.00021	0.00035	0.00046	0.00038	0.00029	0.00031
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	0.000074	<0.00047	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.000094	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.000078	<0.00005	<0.00005	0.000065	0.000073	< 0.00005	<0.00005	<0.00005	<0.00005	0.00012	0.000054	<0.00005	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.000047	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.000094	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.0047	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005
Total Pesticides			0.00054	0.00034	0.00042	0.00068	0.00044	0.0003	0.00020	0.00021	0.00035	0.00073	0.00043	0.00029	0.00031
pH (std units)			3.7	3.63	3.75	3.71	3.76	4.22	4.08	4.09	4.00	4.04	3.82	4.43	4.25
Specific Conductance (mS/cm)			1.39	1.20	1.13	1.32	1.18	1.42	0.789	1.25	1.63	1.79	1.82	1.27	0.836
Turbidity (NTUs)			8.5	8.9	0	0	0.21	75.5	0.18	19.4	4.2	4.1	0.0	140	3.1
DO (mg/L)			1.72	0.58	1.06	0.38		2.7	2.04	1.63	2.86	1.16	1.24	64.5	1.38
ORP (mV)			236	290	409	389		296	241	306	286	356	324	220	347

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117
Sample Date	Published by EPD	Concentrations	11/12/2014	5/16/2014	11/13/2013	5/23/2013	2012	7/28/2010 & 9/13/2010	11/13/2018	5/10/2018	11/3/2017	5/5/2017	11/10/2016	6/3/2016	11/16/2015	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	Well was dry and was not sampled	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	2.54	2.45	3.25	1.91		4.1	0.0343	0.03	0.0347	0.0289	0.0426	0.036	0.0321	
Total Lead	0.015	0.015	0.00112	0.00386	0.00533	0.00162		0.0073	< 0.001	0.00161	<0.001	<0.001	0.00131	0.00133	0.00175	
Total Zinc	6.0	2.0	7.06	8.90	8.66	4.62		12	0.805	0.875	0.900	0.913	0.711	1.02	0.867	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005		na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	3.25	2.15	2.65	1.47		na	0.0328	0.0287	0.0259	0.0214	0.0337	0.0335	0.0272	
Dissolved Lead	0.015	0.015	0.00102	0.00359	0.00409	<0.001		na	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00112	
Dissolved Zinc	6.0	2.0	8.85	6.53	6.25	3.56		na	0.882	0.791	0.830	0.684	0.663	1.01	0.682	
Total of Total Metals Concentrations			9.60112	11.35386	11.91533	6.53162		16.1073	0.8393	0.90661	0.9347	0.9419	0.75491	1.05733	0.90085	
Total of Dissolved Metals Concentrations			12.10102	8.68359	8.90409	5.03		na	0.9148	0.8197	0.8559	0.7054	0.6967	1.0435	0.71032	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	28	18	72	16		91	4.1	3.9	4.1	3.8	4.1	2.7	4.0	
Sulfate	250 (NR)	250 (NR)	430	660	570	400		710	120	140	120	140	140	180	140	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005		0.00019	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005		<0.00048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	0.00055	0.00019	0.00025	0.00026		0.00063	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005		<0.00048	< 0.00005	<0.00005	<0.00005	0.00011	<0.00005	<0.00005	<0.00005	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001		<0.000095	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005		0.00027	< 0.00005	<0.00005	<0.00005	0.000057	<0.00005	<0.00005	<0.00005	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005		na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005		<0.000048	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005		<0.000095	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005		<0.0048	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	
Total Pesticides			0.00055	0.00019	0.00025	0.00026		0.00109	BDL	BDL	BDL	0.00017	BDL	BDL	BDL	
pH (std units)			4.05	4.06	3.55	4.24	DRY	3.92/3.94	3.96	4.7	4.23	4.07	4.1	3.44	4.27	
Specific Conductance (mS/cm)			0.999	1.48	0.652	1.17		2.06/2.3	0.344	0.267	0.327	0.317	0.401	0.372	0.364	
Turbidity (NTUs)			7.1	2.1	148	9.16		3.75/4.95	6.4	7.09	4.8	5.5	84.3	9.2	6.5	
DO (mg/L)			0	3.87	1.42	6.1			1.55	1.57	0.55	2.14	1.38	0.50	3.39	
ORP (mV)			393	300	332	249			473	274	369	491	421	310	436	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119
Sample Date	Published by EPD	Concentrations	6/2/2015	11/17/2014	5/19/2014	11/15/2013	5/23/2013	11/15/2012	9/14/2010	11/16/2018	5/15/2018	11/7/2017	5/9/2017	11/11/2016	6/8/2016
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0025	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0295	0.0678	0.0362	0.0438	0.0318	0.0453	0.038	0.00806	0.00421 JB	0.00472	0.0986	0.0737	0.018
Total Lead	0.015	0.015	0.00117	0.00282	0.00109	0.00172	0.00107	0.00193	<0.0015	< 0.001	<0.001	<0.001	0.00115	<0.001	0.0045
Total Zinc	6.0	2.0	0.802	1.01	0.809	1.01	1.05	0.794	1.6	0.697	0.647	0.605	1.23	1.45	2.3
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.0321	0.0761	0.0378	0.033	0.0272	0.0410	na	< 0.002	0.00216 JB	<0.002	0.137	<0.002	0.00895
Dissolved Lead	0.015	0.015	<0.001	0.00178	<0.001	<0.001	<0.001	<0.001	0.00115	na	< 0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	0.865	0.991	0.95	0.878	0.879	0.775	na	0.627	0.483	0.604	1.1	1.27	2.02
Total of Total Metals Concentrations			0.83267	1.08062	0.84629	1.05552	1.08287	0.84123	1.638	0.70506	0.65121	0.60972	1.32975	1.5237	2.3225
Total of Dissolved Metals Concentrations			0.8971	1.06888	0.9878	0.911	0.9062	0.81715	na	0.627	0.48516	0.604	1.237	1.27	2.02895
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	3.4	3.1	3.3	3.9	4.0	3.8	2.5	< 0.25	<0.25	<0.25	<0.25	0.33	<2.5
Sulfate	250 (NR)	250 (NR)	150	130	140	140	140	130	260	77	59	66	150	140	150
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00063	0.00045	0.0006	0.00071	0.0012
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00054	0.00034	0.00058	0.00073	0.0009	0.0011
delta-BHC	0.0003	0.00005(DL)	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000056	0.00058	0.00038	<0.001	0.00076	0.001	0.0014
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000064	0.000053	0.00011	0.00012	0.00017	0.00086
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	na	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			BDL	BDL	BDL	BDL	BDL	0.000056	BDL	0.001814	0.00122	0.00129	0.00232	0.00327	0.00486
pH (std units)			4.41	3.52	4.21	4.17	4.23	4.18	4.24	6.35	6.82	6.42	6.04	6.91	6.29
Specific Conductance (mS/cm)			0.305	0.414	0.408	0.416	0.419	0.396	0.51	0.547	0.431	0.485	0.505	1.690	0.513
Turbidity (NTUs)			8.1	1.3	7.2	8.78	9.79	10.41	8.19	0	5.01	5.09	0.6	0.0	7.4
DO (mg/L)			1.2	1.40	2.95	1.43	1.42	6.8	8.19	0	0.23	0.0	0.47	0.65	0.13
ORP (mV)			382	421	382	353	364	398	398	1	-10	-31	65	19	39

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-120	MW-120	MW-120	MW-120	MW-120
Sample Date	Published by EPD	Concentrations	11/17/2015	6/5/2015	11/18/2014	5/21/2014	11/18/2013	5/28/2013	12/6/2012	11/16/2018	5/16/2018	11/7/2017	5/9/2017	11/11/2016	6/8/2016
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.00727	0.0106	0.00514	0.00386	0.00391	0.0158	<0.005	0.0145	0.00857 JB	0.0425	0.059	0.0222	0.00986
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	0.00183	0.00276	0.0059	0.0012	<0.001	0.00101	0.00121	0.00102	0.00124	0.00247
Total Zinc	6.0	2.0	1.05	0.76	0.677	1.38	0.778	1.18	0.656	0.63	0.637	0.846	0.809	0.813	0.813
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.0225	<0.002	0.00369	<0.002	0.00530	0.00697	<0.002	0.00378	0.00629 JB	0.0113	0.0162	0.00577	0.00594
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	1.09	0.69	0.689	1.36	0.677	0.877	0.532	0.695	0.614	0.762	0.735	0.804	0.74
Total of Total Metals Concentrations			1.05727	0.7706	0.68214	1.38569	0.78467	1.2017	0.6572	0.6445	0.64658	0.88971	0.86902	0.83644	0.82533
Total of Dissolved Metals Concentrations			1.1125	0.69	0.69269	1.36	0.6823	0.88397	0.532	0.69878	0.62029	0.7733	0.7512	0.80977	0.74594
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<2.5	<0.25	<0.25	<0.25	<0.25	<1.2	<0.25	<0.25	<0.25	0.56	<0.25	<2.5	<2.5
Sulfate	250 (NR)	250 (NR)	140	92	170	120	94	110	150	220	220	240	200	210	190
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0012	0.00049	0.00064	0.00140	0.00050	0.00060	0.00087	0.0015	0.0013	0.0014	0.0016	0.0013	0.0014
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0011	0.00052	0.00062	0.0011	0.00042	0.00051	0.00066	0.002	0.0015	0.002	0.0017	0.0012	0.0013
delta-BHC	0.0003	0.00005(DL)	0.0011	0.00053	0.001	0.0016	0.00051	0.00053	0.00073	0.0015	0.0012	0.0014	0.0014	0.0011	0.0012
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00023	0.000085	0.00013	0.00025	0.0001	0.00012	0.00013	0.00014	0.00016	0.00021	0.00016	0.000065	0.00015
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			0.00363	0.001625	0.002390	0.004350	0.001530	0.00176	0.00257	0.00514	0.00416	0.00501	0.00486	0.00367	0.00405
pH (std units)			6.92	7.01	5.64	5.44	6.25	5.75	5.99	5.82	6.03	5.92	5.8	6.79	6.06
Specific Conductance (mS/cm)			0.547	0.474	0.740	0.719	0.731	0.647	0.646	0.694	0.549	0.610	0.575	1.78	0.512
Turbidity (NTUs)			8.6	5.3	6.8	6.1	7.4	107	3.1	7.2	1.19	6.94	1.7	3.6	3.4
DO (mg/L)			0	0	7.45	0.52	0.43	4.78	0.6	0.09	0.76	0.0	0.48	1.1	0.0
ORP (mV)			14	3	-21	44	-59	49	40.4	132	128	99	157	113	98

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-120	MW-120	MW-120	MW-120	MW-120	MW-120	MW-120	MW-120	MW-121	MW-121	MW-121	MW-121	MW-121
Sample Date	Published by EPD	Concentrations	11/17/2015	6/4/2015	11/19/2014	5/21/2014	11/18/2013	5/28/2013	12/7/2012	11/14/2018	5/11/2018	11/7/2017	5/10/2017	11/11/2016	6/7/2016
Metals mg/L															
Total Arsenic	0.01	0.01	<0.005	<0.005	0.00117 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Copper	1.3	1.3	0.0422	0.0063	0.0108	0.0584	0.0124	0.0129	0.0289	0.0147	0.00877 JB	0.0120	0.00524	0.0491	0.0105
Total Lead	0.015	0.015	0.00541	<0.001	0.00197	0.04600	0.0018	0.00418	0.0295	<0.001	<0.001	<0.001	<0.001	0.00346	0.00117
Total Zinc	6.0	2.0	1.33	0.533	0.690	1.41	1.23	0.894	1.88	0.0287	0.0259 JB	0.0331	0.0218	1.14	0.0373
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.000536	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Copper	1.3	1.3	0.101	0.00268	0.0042	0.0029	0.00554	0.0067	0.00223	0.00802	<0.01	0.00918	0.0038	0.0278	0.00693
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.0000990	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	1.31	0.458	0.667	1.18	1.07	0.737	1.74	0.0183	<0.05	0.0334	<0.0100	1.08	0.0178
Total of Total Metals Concentrations			1.37761	0.5393	0.70277	1.5144	1.2442	0.91108	1.9384	0.0434	0.03467	0.0451	0.02704	1.19256	0.04897
Total of Dissolved Metals Concentrations			1.411	0.46068	0.6712	1.1829	1.07554	0.7437	1.74223	0.02632	BDL	0.04258	0.0038	1.1078	0.02473
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<2.5	<0.25	<0.14	<0.25	<1.2	<1.2	<0.25	0.85	0.95	0.90	2.4	0.46	2.8
Sulfate	250 (NR)	250 (NR)	330	170	170	150	150	160	410	53	46	60	45	260	46
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<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	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0017	0.0012	0.00096	0.00095	0.00090	0.00063	0.0035	0.00024	0.00014	0.00023	0.000083	0.005	0.00011
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
beta-BHC	0.0003	0.00005(DL)	0.0019	0.0013	0.0011	0.00099	0.00089	0.00075	0.0042	0.00016	0.00030	0.00011	0.0019	0.000059	
delta-BHC	0.0003	0.00005(DL)	0.0015	0.0011	0.001	0.0014	0.00071	0.00046	0.0031	0.00015	0.00011	<0.00005	0.000065	0.0063	0.000071
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.00017	<0.00005	<0.00005	0.000084	<0.00005	<0.00005	0.0011	0.000071	<0.00005	0.00013	<0.00005	0.0029	<0.00005
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			0.00527	0.00360	0.00306	0.00342	0.00250	0.0018	0.0119	0.000621	0.00035	0.0007	0.0003	0.01610	0.00024
pH (std units)			5.92	6.57	5.59	5.61	5.57	5.38	6.3	6.23	6.49	6.22	6.22	5.72	6.36
Specific Conductance (mS/cm)			0.723	0.563	0.85	0.693	0.640	0.645	0.95	0.291	0.247	0.33	0.327	0.827	0.271
Turbidity (NTUs)			84.6	763	82	279	83	78.9	76.1	0	113	0	0	0.0	7.5
DO (mg/L)			0	0.31	6.05	0.53	8.93	3.06	6.42	0.35	4.58	0.23	1.72	3.34	0.61
ORP (mV)			97	146	82	93	85	175	58.6	160	144	127	127	172	142

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1
Sample Date	Published by EPD	Concentrations	11/13/2015	6/5/2015	11/13/2014	5/19/2014	11/18/2013	5/29/2013	12/6/2012	11/16/2018	5/14/2018	11/8/2017	5/10/2017	11/11/2016	6/8/2016	
Metals mg/L																
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.15	0.126	0.139	0.0683	0.0952	0.187	
Total Copper	1.3	1.3	0.0052	0.0309	0.0113	0.00695	0.00330	0.00429	0.0295	0.201	<0.2	0.170	0.314	0.486	0.164	
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	0.00136	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	0.00103	<0.001	
Total Zinc	6.0	2.0	0.0187	0.0204	0.0434	0.0194	0.0112	0.0313	1.59	4.61	3.52	4.62	8.01	14.8	4.69	
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0273	0.0315	0.0416	0.0229	0.026	0.0142	
Dissolved Copper	1.3	1.3	0.00345	0.0066	0.00286	0.00223	0.00469	0.0106	0.0112	0.0572	0.0498	0.0760	0.149	0.162	0.0498	
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Dissolved Zinc	6.0	2.0	<0.01	0.0163	0.0196	0.0125	0.0692	0.0153	1.25	4.58	3.42	4.8	2.23	12.6	4.57	
Total of Total Metals Concentrations			0.0239	0.0513	0.0547	0.02771	0.0145	0.03559	1.6207	4.961	3.646	4.929	8.3923	15.38223	5.041	
Total of Dissolved Metals Concentrations			0.00345	0.0229	0.02246	0.01473	0.07389	0.0259	1.2612	4.6645	3.5013	4.9176	2.4019	12.788	4.634	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	5.0	<0.25	0.43	0.4	0.45	0.32	0.59	<0.25	<0.25	<0.25	<0.25	<2.5	<2.5	
Sulfate	250 (NR)	250 (NR)	21	12	50	42	64	56	220	500	290	370	390	240	550	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00018	<0.0001	0.00018	0.00015	<0.0001	<0.0001	
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<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	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	<0.00005	<0.00005	0.000054	0.00012	0.00030	0.00018	0.0027	0.017	0.00081	0.016	0.012	0.014	0.0067	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	<0.00005	0.000054	0.0001	0.00012	0.00023	0.00015	0.0011	0.0045	0.00035	<0.0005	0.0046	0.0039	0.0029	
delta-BHC	0.0003	0.00005(DL)	<0.00005	0.000071	<0.000050	0.00011	0.00023	0.000078	0.0023	0.023	0.015	0.019	0.02	0.018	0.014	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00029	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.00005	0.00009	<0.00005	0.0014	0.0046	0.0006	0.0056	0.0082	0.0069	0.0067	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
Total Pesticides			BDL	0.0001	0.0002	0.0004	0.0009	0.000408	0.0075	0.04957	0.01676	0.04078	0.04495	0.04280	0.03030	
pH (std units)			6.24	6.35	6.36	6.03	6.10	5.85	5.97	6.22	5.85	6.08	5.92	5.73	5.88	
Specific Conductance (mS/cm)			0.286	0.292	0.251	0.369	0.425	0.395	0.633	1.39	0.723	0.866	0.824	1.26	0.92	
Turbidity (NTUs)			0.1	0	1.8	0	1.45	0.47	3.6	0	0	0.0	0	0.0	0.0	
DO (mg/L)			2.95	0	0	0.71	0.74	2.18	3.9	1.07	0.57	0.0	0.42	0.2	0.0	
ORP (mV)			157	149	43	167	82	154	79.6	13	-10	13	79	44	10	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-2	OW-2	OW-2	OW-2	OW-2
Sample Date	Published by EPD	Concentrations	11/16/2015	6/3/2015	5/19/2014	1/8/2014	10/9/2013	7/16/2013	4/15/2013	1/20/2013	11/16/2018	5/15/2018	11/8/2017	5/10/2017	11/14/2016
Metals mg/L															
Total Arsenic	0.01	0.01	0.0644	0.0801	0.102	0.0493	0.0375	0.0636	0.0671	0.0918	0.063	0.0501	0.0641	0.0492	0.0431
Total Copper	1.3	1.3	0.483	0.25	0.181	0.471	0.417	0.33	0.293	0.0929	0.058	0.0441	0.0290	0.0503	<0.1
Total Lead	0.015	0.015	0.00101	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.00106	<0.001	<0.001	<0.001	<0.001	<0.001
Total Zinc	6.0	2.0	9.54	5.75	7.71	17.2	14.6	11.2	15.8	5.55	3.16	3.79	2.63	2.56	3.87
Dissolved Arsenic	0.01	0.01	0.0214	0.0226	0.0228	0.0281	0.0121	0.0188	0.0131	0.0709	0.0122	0.0123	0.0373	0.0212	0.0339
Dissolved Copper	1.3	1.3	0.22	0.0869	0.0724	0.345	0.23	0.129	0.0855	0.0716	0.0576	0.0204 JB	0.0592	0.021	0.0493
Dissolved Lead	0.015	0.015	0.00106	0.00135	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dissolved Zinc	6.0	2.0	7.49	5.9	5.62	14.9	16.7	10.7	14.3	5.75	2.99	2.95	2.93	0.788	3.78
Total of Total Metals Concentrations			10.088	6.080	7.993	17.720	15.055	11.594	16.160	5.736	3.281	3.8842	2.7231	2.6595	3.9131
Total of Dissolved Metals Concentrations			7.732	6.011	5.715	15.273	16.942	10.848	14.399	5.893	3.0598	2.9827	3.0265	0.8302	3.8632
Inorganics mg/L															
Nitrate	10 (NR)	10 (NR)	<5	<0.25	<0.25	<2.5	<5.0	<2.5	<2.5	<2.5	<0.25	<0.25	<0.25	<0.25	<2.5
Sulfate	250 (NR)	250 (NR)	530	350	450	600	580	590	800	600	530	490	480	450	630
Organochlorine Pesticides mg/L															
4,4'-DDD	0.0003	0.0001	0.00019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00023	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002
alpha-BHC	0.00007	0.00005(DL)	0.0067	0.0066	0.0086	0.0077	0.0097	0.0088	0.0098	0.012	0.059	0.027	0.036	0.015	0.052
alpha-Chlordane	0.002	0.002	<0.000050	<0.000050	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000050	<0.00005	<0.00005	<0.00005	<0.00005	<0.001
beta-BHC	0.0003	0.00005(DL)	0.0034	0.0033	0.0034	0.0039	0.0037	0.004	0.0036	0.004	0.0086	0.0054	0.0068	0.0042	0.0086
delta-BHC	0.0003	0.00005(DL)	0.013	0.013	0.017	0.013	0.017	0.016	0.016	0.017	0.22	0.072	0.13	0.059	0.18
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.0001	<0.0001	<0.0001	<0.002
gamma-BHC	0.0002	0.0002	0.0059	0.0058	0.0067	0.0075	0.013	0.0086	0.0077	0.0083	0.084	0.018	0.047	0.0095	0.056
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.001
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.001
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.01
Toxaphene	0.003	0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003
Total Pesticides			0.0292	0.0287	0.0357	0.0322	0.0434	0.0374	0.0373	0.0413	0.37160	0.12240	0.21980	0.08770	0.29660
pH (std units)			6.64	5.27	5.92	5.92	5.71	5.95	6.08	5.77	6.10	5.71	5.98	6.01	6.05
Specific Conductance (mS/cm)			1.19	0.743	1.23	1.233	1.404	1.323	1.753	1.40	1.43	1.35	1.21	0.88	1.28
Turbidity (NTUs)			1.2	0	0	2.57	6.35	75.6	6.9	4.3	6.3	0	5.86	6.1	0.0
DO (mg/L)			0	0.67	1.75	0.76	0.92	0.43	5.05	1.1	0.0	0.7	0.0	0.32	0.0
ORP (mV)			54	108	71.0	55.0	155.3	45.5	55.9	100.2	19	-3	1	38	-5

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations	Type 1 RRS Concentrations	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-2	OW-3	OW-3	OW-3	OW-3
Sample Date	Published by EPD	Concentrations	6/8/2016	11/13/2015	6/3/2015	5/20/2014	1/8/2014	10/9/2013	7/16/2013	4/16/2013	1/20/2013	11/16/2018	5/15/2018	11/8/2017	5/10/2017	
Metals mg/L																
Total Arsenic	0.01	0.01	0.0382	0.0532	0.0321	0.057	0.0392	0.029	0.031	0.0314	0.0258	< 0.005	<0.005	<0.005	<0.005	
Total Copper	1.3	1.3	0.0478	0.0476	0.0645	0.0512	0.0439	0.0338	0.0252	0.0159	0.0281	0.638	0.572	0.485	0.468	
Total Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	
Total Zinc	6.0	2.0	3.57	2.89	5.09	5.4	8.35	6.13	6.33	4.89	2.33	6.11	5.01	3.90	3.75	
Dissolved Arsenic	0.01	0.01	<0.005	0.0272	0.00919	0.0163	0.0252	0.015	0.0168	0.0278	0.0243	< 0.005	<0.005	<0.005	<0.005	
Dissolved Copper	1.3	1.3	0.0251	0.0215	0.0291	0.0314	0.0263	0.0222	0.018	0.00567	0.0236	0.644	0.486	0.561	0.457	
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	
Dissolved Zinc	6.0	2.0	3.42	2.66	4.52	5.32	6.31	5.80	5.95	4.83	2.24	6.26	4.12	4.24	1.21	
Total of Total Metals Concentrations			3.656	2.991	5.187	5.508	8.433	6.193	6.386	4.937	2.384	6.748	5.582	4.385	4.218	
Total of Dissolved Metals Concentrations			3.4451	2.709	4.558	5.368	6.362	5.837	5.985	4.863	2.288	6.904	4.606	4.801	1.667	
Inorganics mg/L																
Nitrate	10 (NR)	10 (NR)	<2.5	<2.5	<0.25	<0.14	<2.5	<5.0	<2.5	<2.5	<0.25	0.59	0.58	0.36	< 2.5	
Sulfate	250 (NR)	250 (NR)	590	480	620	710	640	520	530	480	350	480	480	890	500	
Organochlorine Pesticides mg/L																
4,4'-DDD	0.0003	0.0001	0.00012	0.00015	0.00018	0.00012	0.00019	0.00019	<0.0001	0.00039	<0.002	< 0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	< 0.0001	<0.0001	<0.0001	<0.0001	
4,4'-DDT	0.0023	0.0001	<0.0001	0.00019	0.00021	0.000088	0.00027	0.00015	<0.0001	0.00035	<0.001	< 0.0001	<0.0001	<0.0001	<0.0001	
alpha-BHC	0.00007	0.00005(DL)	0.022	0.042	0.022	0.062	0.024	0.031	0.015	0.0096	0.011	0.0033	0.0038	<0.005	0.0037	
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
beta-BHC	0.0003	0.00005(DL)	0.0051	0.0083	0.0052	0.011	0.011	0.007	0.0046	0.0041	0.0043	0.0019	0.0020	<0.005	0.0018	
delta-BHC	0.0003	0.00005(DL)	0.081	0.15	0.063	0.16	0.084	0.08	0.028	0.019	0.022	0.0089	0.0097	0.0094	0.0096	
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	< 0.0001	<0.0001	<0.0001	<0.0001	
gamma-BHC	0.0002	0.0002	0.018	0.045	0.016	0.066	0.031	0.033	0.01	0.0063	0.0038	0.0015	0.002	<0.005	0.0021	
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	< 0.00005	<0.00005	<0.00005	<0.00005	
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	< 0.0005	<0.0005	<0.0005	<0.0005	
Toxaphene	0.003	0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.003	<0.003	<0.003	<0.003	
Total Pesticides			0.12622	0.2456	0.1066	0.29921	0.15046	0.15134	0.05760	0.03974	0.0411	0.0156	0.01750	0.00940	0.01720	
pH (std units)			5.78	6.76	5.97	5.86	5.75	5.49	5.67	5.78	5.6	5.09	4.92	5.09	5.19	
Specific Conductance (mS/cm)			0.96	1.14	1.2	1.66	1.251	1.337	1.251	1.08	0.908	0.875	0.802	0.639	0.9	
Turbidity (NTUs)			0.0	82.1	10.2	6.8	1.16	3.12	14.1	7.1	34	7.9	0	0	2.6	
DO (mg/L)			0.0	0	0.63	2.01	0.64	0.76	0.37	0.61	1.02	0	0.7	0.0	0.5	
ORP (mV)			25	46	43	60.0	42.8	81.5	98.9	58.1	37.2	209	157	235	268	

TABLE 3: SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Well Number	Updated Type 1 RRS Concentrations Published by EPD 10/12/2018	Type 1 RRS Concentrations	OW-3 11/14/2016	OW-3 6/8/2016	OW-3 11/13/2015	OW-3 6/8/2015	OW-3 5/21/2014	OW-3 1/8/2014	OW-3 10/9/2013	OW-3 7/16/2013	OW-3 4/16/2013	OW-3 1/20/2013	MW-WO-01 3/15/2016
Metals mg/L													
Total Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Total Copper	1.3	1.3	0.579	1.25	0.726	0.984	1.32	1.09	0.918	0.954	1.08	0.126	NA
Total Lead	0.015	0.015	<0.001	<0.001	0.00219	0.00179	0.00157	<0.001	<0.001	<0.001	<0.001	<0.001	NA
Total Zinc	6.0	2.0	5.22	8.49	4.81	9.05	15.7	12	7.81	7.42	9.3	5.44	NA
Dissolved Arsenic	0.01	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA
Dissolved Copper	1.3	1.3	0.559	1.23	0.692	0.807	1.71	1.09	0.906	0.962	1.04	0.115	NA
Dissolved Lead	0.015	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA
Dissolved Zinc	6.0	2.0	5.31	8.48	4.92	7.22	19.1	8.9	7.83	7.13	9.26	5.22	NA
Total of Total Metals Concentrations			5.799	9.74	5.538	10.036	17.022	13.090	8.728	8.374	10.380	5.566	
Total of Dissolved Metals Concentrations			5.869	9.71	5.612	8.027	20.810	9.990	8.736	8.092	10.300	5.335	
Inorganics mg/L													
Nitrate	10 (NR)	10 (NR)	<2.5	4.0	<2.5	0.52	8.1	1.8	<2.5	<1.2	<2.5	0.98	NA
Sulfate	250 (NR)	250 (NR)	560	1100	560	420	700	460	500	450	540	390	NA
Organochlorine Pesticides mg/L													
4,4'-DDD	0.0003	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.001	<0.0001
4,4'-DDE	0.0005	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	<0.0001	<0.0001	<0.0001
4,4'-DDT	0.0023	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001	<0.0001	<0.001	<0.001	0.0001	<0.001	<0.0001
alpha-BHC	0.00007	0.00005(DL)	0.0041	0.0015	0.0036	0.0032	0.0026	0.0027	0.0028	0.0035	0.0023	0.0047	<0.0001
alpha-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0005
beta-BHC	0.0003	0.00005(DL)	0.0022	0.0019	0.0021	0.0018	0.0013	0.0016	0.0013	0.0019	0.0012	0.0024	<0.0001
delta-BHC	0.0003	0.00005(DL)	0.0093	0.0044	0.01	0.0083	0.0064	<0.00005	0.0089	0.0079	0.0057	0.0067	<0.0001
Dieldrin	0.00002	0.0001(DL)	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
gamma-BHC	0.0002	0.0002	0.002	0.0012	0.002	0.0021	0.0018	0.002	0.0038	0.0025	0.0021	0.0021	<0.0001
gamma-Chlordane	0.002	0.002	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA
Heptachlor	0.0004	0.0004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0001
Methoxychlor	0.04	0.04	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0003
Toxaphene	0.003	0.003	<0.003	<0.003	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
Total Pesticides			0.01760	0.00900	0.0177	0.0154	0.0121	0.0063	0.0168	0.0158	0.0114	0.0159	BDL
pH (std units)			5.05	4.77	5.17	4.95	4.53	4.51	4.32	4.65	4.82	5.06	
Specific Conductance (mS/cm)			1.11	1.74	0.985	0.788	1.58	0.855	0.992	0.922	1.076	0.93	
Turbidity (NTUs)			0.0	0.0	102	4.6	0	0.47	0.58	2.8	8.1	48	
DO (mg/L)			0.8	0.0	0	0	1.2	0.47	0.76	0.39	0.58	0.66	
ORP (mV)			253	161	274	297	260	168.3	208.7	202.6	204.2	128.5	

Notes:

<0.00005 = constituent not detected above laboratory quantitation limit

BDL = Below Detection Limit (below laboratory quantitation limit)

NA = not analyzed

Bolded concentrations indicate detection above laboratory quantitation limit

Concentration above the Type 1 RRS

November 2018 concentrations compared to new EPD October 12, 2018 published Type 1 RRSs.

Concentrations for May 2018 and earlier compared to prior 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%.

J = Estimated, based on QC criteria

JB = Estimated, based on blank contamination

JH = Estimated, possibly biased high

JL = Estimated, possibly biased low

UJ = Not Detected, estimated based on QC criteria

UL = Not Detected, estimated possibly biased low

Prepared by: RNO 7/6/2018 RB 1/10/2019

Checked by: AS 7/7/2018, RNO 1/24/2019

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW-2010-5	SW-2010-5	SW-2010-5	SW-2010-5	SW-2010-5	SW-2010-5	SW-2010-5	SW-2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	SW2010-5	
Sample Date						11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	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)														
						735	735	735	735	735	735	735	735	735	735	735	735	735	735	735
Total Organochlorine Pesticides (ug/L) GA Instream National AWQC National AWQC Human Consumption of Water + Organism National AWQC Human Consumption of Water GA Instream Human Health						Surface water sample from main channel upstream of culvert														
						Ecological Exposure						Human Health Exposure								
alpha-BHC	not established		0.0026	0.0049	0.0049	0.049 J	0.052	0.022J	0.087	0.2	0.074	0.059	0.062	0.083	0.075	0.085	0.092	0.11	0.13	
beta-BHC	not established		0.0091	0.017	0.017	0.04 J	0.033 JQ	0.048J	0.078	0.083	0.085	0.064	0.21	0.074	0.12	0.073	0.089	0.071	0.23	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.016 J	0.035 JQ	<0.017	<0.05	0.021 J	0.023 J	0.013 J	0.013 J	0.0092 J	0.014 J	<0.050	0.0087 J	<0.05	0.037 P	
delta-BHC	not established			not established		0.02 J	0.024 JQ	<0.014	0.034 J	0.041 J	0.033 J	0.024 J	0.091	<0.0031	0.014	0.051	0.078	0.12	0.2	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02	<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.1	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013	<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014	<0.016	<0.1	<0.1	0.0056 J	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.0065	
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01	0.00022	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0077	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007	<0.026	<0.1	<0.1	<0.1	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0097	
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	<0.005	<0.005	<0.017	<0.1	0.0085 J	0.0041 J	<0.0072	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0091	
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005	<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.007	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03	<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.013	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062	<0.21	<3.0	<3.0	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.5	
Total Pesticides Concentrations (ug/L)						0.125	0.144	0.07	0.199	0.3535	0.2247	0.16	0.376	0.1662	0.223	0.209	0.2677	0.301	--	
Total Metals (mg/L)																				
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.008	
Copper	0.0152*	0.0152*	1.3	not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0161	0.016	
Lead	0.0049*	0.0049*		not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	0.0067 J	
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.16	0.97	
Dissolved Metals (mg/L)																				
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.00251 J	0.004 JQ	0.00611	0.00161 J	0.00148 J	0.00136 J	0.00212 J	0.00228 J	0.000704 J	0.00175 J	<0.005	0.00156 J	<0.005	0.0015 J	
Copper	0.0152*	0.0152*	1.3	not established		0.00807	0.00966	0.00888	0.0084	0.00706	0.00536	0.0063	0.00517	0.00471	0.00684	0.101	0.007	0.00365	0.0074	
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621	<0.000215	<0.001	<0.001	<0.001	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	
Zinc	0.200*	0.200*	7.4	26	not established	0.403	0.307	0.189	0.578	0.789	0.504	0.381	0.444	0.469	0.434	0.840	0.706	1.03	0.89	
Total Dissolved Metals Concentrations (mg/L)						0.41358	0.32066	0.2056	0.58801	0.79754	0.51072	0.38942	0.45145	0.474414	0.44259	0.941	0.71456	1.03365	--	
Total Trichlorobenzenes (ug/L)																				
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.97	
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.54	
Nitrate and Sulfate (mg/L)																				
Nitrate as N	not established		10 (nitrates)	not established		1.2	1.0	0.54	1.0	0.9 J	1.9 J	1.4 J	1.2	1.8	1.7	0.72	1.3	0.55	0.74	
Sulfate	not established			not established		74	62	39	84	97	97	97	78	100	85	83	93	87	110	
Hardness as CaCo3 (mg/L)						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						7.31	7.05	6.91	6.21	6.52	7.04	7.31	7.44	6.96	7.35	5.62	6.61			
Specific Conductance (mS/cm)						0.477	0.329	0.237	0.424	0.462	0.509	0.545	0.423	0.443	0.501	0.683	0.812			
Turbidity (NTUs)						7.9	0.0	6.8	1.2	0.0	0	23.1	0	5.88	0	0	0			
DO (mg/L)						7.04	5.99	7.13	6.61	5.34	6.38	6.2	3.64	10.65	8.03	7.33	9.68			
ORP (mV)						160	69	40	143	169	37	65	47	27	57	127	51			

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW-2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10	SW2010-10			
Sample Date						11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	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)															
						1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152		
Total Organochlorine Pesticides (ug/L) GA Instream National AWQC National AWQC Human Consumption of Water + Organism National AWQC Human Consumption of Water GA Instream Human Health						Surface water sample from main channel upstream of culvert															
						Ecological Exposure			Human Health Exposure			0.11	0.12	JH	0.05	0.23	0.23	0.22	0.15	0.11	0.097
alpha-BHC	not established		0.0026	0.0049	0.0049	0.052	0.074	JH	0.028J	0.11	0.075	0.1	0.063	0.054	0.028 J	0.046 J	0.060	0.066	0.066	<0.05	0.13
beta-BHC	not established		0.0091	0.017	0.017	0.058	0.16	JH	0.044J	0.11	0.11	0.12	0.066	0.14	0.059	0.16	0.077	0.16	0.14	0.14	0.18
gamma-BHC (lindane)	0.95 (acute) 0.95 (acute)	0.98	0.98	1.8	1.8	0.052	0.074	JH	0.028J	0.11	0.075	0.1	0.063	0.054	0.028 J	0.046 J	0.060	0.066	0.066	<0.05	0.084
delta-BHC	not established			not established		0.058	0.16	JH	0.044J	0.11	0.11	0.12	0.066	0.14	0.059	0.16	0.077	0.16	0.14	0.14	0.11 P
Chlordane	0.0043 0.0043	0.0008	0.0008	0.00081	0.00081	<0.02	<0.02		<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.05	<0.094
gamma-Chlordane	0.0043 0.0043	0.0008	0.0008	0.00081	0.00081	<0.013	<0.013		<0.062	<0.05	<0.05	0.011 J	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	<0.05	NA
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014		<0.016	<0.1	<0.1	0.011 J	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.1	<0.0061
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01		<0.024	<0.1	<0.1	0.033 J	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.1	<0.0073
4,4'-DDT	0.001 0.001	0.00022	0.00022	0.00022	0.00022	<0.007	<0.007		<0.026	<0.1	<0.1	<0.0063	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.1	<0.0092	
Dieldrin	0.056 0.056	0.000052	0.000052	0.000054	0.000054	0.0054 J	<0.005		<0.017	<0.1	0.0098 J	0.0066 J	<0.0072	<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	0.000079	<0.005	<0.005		<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.05	<0.0066
Methoxychlor	0.03 0.03	100	100	not established	not established	<0.03	<0.003		<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.5	<0.012
Toxaphene	0.0002 0.0002	0.00028	0.00028	0.00028	0.00028	<0.062	<0.062		<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<5	<0.47
Total Pesticides Concentrations (ug/L)						0.2754	0.354	0.169	0.57	0.5348	0.6106	0.361	0.544	0.265	0.446	0.399	0.536	0.382	--		
Total Metals (mg/L)						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0041	
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0041
Copper	0.0152*	0.0152*	1.3	not established	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00796	0.01
Lead	0.0049*	0.0049*	7.4	not established	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.0005
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.736	0.5
Dissolved Metals (mg/L)						0.00301 J	0.00384	JQ	0.00534	0.00192 J	0.00121 J	0.00166 J	0.00206 J	0.00235 J	0.000954 J	0.00188 J	<0.005	0.00172 J	<0.005	0.0023 J	
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.00301 J	0.00384	JQ	0.00534	0.00192 J	0.00121 J	0.00166 J	0.00206 J	0.00235 J	0.000954 J	0.00188 J	<0.005	0.00172 J	<0.005	0.0023 J	
Copper	0.0152*	0.0152*	1.3	not established	not established	0.00816	0.00983		0.00854	0.00677	0.00659	0.00471	0.00773	0.0054	0.00442	0.00663	0.0149	0.00616	0.00404	0.0054	
Lead	0.0049*	0.0049*	<0.000621	<0.000621	<0.000215	<0.000621	<0.000621		<0.000215	<0.001	0.000782 J	<0.001	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002	
Zinc	0.200*	0.200*	7.4	26	not established	0.399	0.190		0.146	0.477	0.557	0.407	0.444	0.407	0.456	0.427	0.706	0.593	0.629	0.44	
Total Dissolved Metals Concentrations (mg/L)						0.41017	0.20367	0.15646	0.48569	0.565582	0.41337	0.45379	0.41475	0.461374	0.43551	0.0855	0.60088	0.63304	--		
Total Trichlorobenzenes (ug/L)						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate and Sulfate (mg/L)						1.2	1.0	0.49	1.1	1.1 J	1.8 J	1.3 J	1.3	1.6	1.8	0.86	1.5	0.79	NA		
Nitrate as N	not established		10 (nitrates)	not established	not established	1.2	1.0	0.49	1.1	1.1 J	1.8 J	1.3 J	1.3	1.6	1.8	0.86	1.5	0.79	NA		
Sulfate	not established		not established	not established	not established	74	63	37	89	100	99	100	80	92	89	95	97	91	NA		
Hardness as CaCo3 (mg/L)						NA	NA	NA	NA	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH (std units)	not established			not established		7.4	7.22	7.07	6.88	6.35	7.13	7.27	7.53	7.12	7.44	6.42	6.98				
Specific Conductance (mS/cm)						0.472	0.329	0.229	0.447	0.508	0.527	0.533	0.429	0.465	0.615	0.66	0.849				
Turbidity (NTUs)						7	7.44	8.7	4	2.1	0	0	49.2	37.4	0	75.1	0				
DO (mg/L)						7.87	6.73	6	5.29	4.71	6.74	5.93	4.8	4.51	7.54	10.1	8.59				
ORP (mV)						190	99	94	158	190	109	130	104	47	122	140	119				

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

PARAMETER, UNITS	Sample Location					SW-2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11	SW2010-11		
	Sample Date					11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010	
Distance Along Stream (ft)					1222															
					Surface water sample from main channel downstream of culvert															
Total Organochlorine Pesticides (ug/L)	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health															
Ecological Exposure		Human Health Exposure																		
alpha-BHC	not established		0.0026	0.0049	0.0049	0.12	0.12	0.049J	0.18	0.35	0.25	0.18	0.15	0.13	0.17	0.24	0.24	0.23	0.19	
beta-BHC	not established		0.0091	0.017	0.017	0.16	0.046	JQ	0.057	0.099	1.1	0.43	0.092	0.24	0.091	0.3	0.29	0.29	0.27	0.45
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.058	0.07	JQ	0.032J	0.085	0.15	0.12	0.073	0.069	0.044 J	0.074	0.091	0.097	0.098	0.11
delta-BHC	not established			not established		0.065	0.05	JQ	0.038J	0.091	0.16	0.15	0.074	0.15	0.077	0.27	0.11	0.19	0.16	0.13 P
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02		<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013		<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014		<0.016	<0.1	<0.1	0.006 J	<0.0082	<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	<0.01	<0.01		0.00022	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007		<0.026	<0.1	<0.1	<0.1	<0.0063	<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	0.0058 J	<0.005		<0.017	<0.1	0.022 J	0.011 J	0.016 J	<0.0001	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.012 J
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005		<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03		<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062		<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.47
Total Pesticides Concentrations (ug/L)						0.4088	0.286		0.176	0.455	1.782	0.967	0.435	0.609	0.342	0.814	0.731	0.817	0.758	--
Total Metals (mg/L)																				
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0059
Copper	0.0152*	0.0152*	1.3	not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.128	0.22
Lead	0.0049*	0.0049*		not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00356	0.012
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.09	3
Dissolved Metals (mg/L)																				
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.00271 J	0.00434	JQ	0.00539	0.00174 J	0.000646 J	0.00126 J	0.00168 J	0.00236 J	0.00102 J	0.00174 J	<0.005	0.00121 J	<0.005	0.0016 J
Copper	0.0152*	0.0152*	1.3	not established		0.0229	0.0127		0.0216	0.00631	0.256	0.0527	0.00669	0.00514	0.00434	0.00567	0.0932	0.0564	0.0572	0.097
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621		0.00024J	<0.001	<0.001	<0.001	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.001	<0.0002
Zinc	0.200*	0.200*	7.4	26	not established	0.756	0.182		0.413	0.472	5.92	1.6	0.399	0.406	0.435	0.377	1.68	1.6	1.74	2.7
Total Dissolved Metals Concentrations (mg/L)						0.78161	0.19904		0.44023	0.48005	6.176646	1.65396	0.40737	0.4135	0.44036	0.38441	1.7732	1.65761	1.7972	--
Total Trichlorobenzenes (ug/L)																				
1,2,3-Trichlorobenzene	not established			not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.56
Nitrate and Sulfate (mg/L)																				
Nitrate as N	not established		10 (nitrates)	not established		1.5	1.0		0.53	1.2	5.4	3.2	1.8 J	1.3	1.6	1.7	2.2	3.0	3.1	4.1
Sulfate	not established			not established		83	62		38	91	240	160	100	82	94	88	120	140	130	220
Hardness as CaCo3 (mg/L)	not established			not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						7.18	7.20		6.68	6.71	6.14	7.02	7.49	7.34	7.93	7.33	6.43	6.94		
Specific Conductance (mS/cm)						0.513	0.356		0.336	0.485	0.677	0.605	0.598	0.505	0.553	0.615	0.66	0.963		
Turbidity (NTUs)						3.9	1.61		1.3	0.3	0	0	8.4	26.6	3.67	0	67.1	14.2		
DO (mg/L)						7.97	10.08		7.07	7.29	4.83	6.54	7.23	4.54	9.2	8.16	9.98	7.07		
ORP (mV)						206	105		143	170	213	117	118	92	82	150	134	186		

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

PARAMETER, UNITS	Sample Location					SW-2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14	SW2010-14				
	Sample Date					11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010		
	Distance Along Stream (ft)						1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	1667	
	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health	Surface water sample from main channel downstream of culvert															
Total Organochlorine Pesticides (ug/L)	Ecological Exposure			Human Health Exposure																	
alpha-BHC	not established		0.0026	0.0049	0.0049	0.21	0.26	0.12	0.38	0.41	0.31	0.2	0.26	0.30	0.31	0.40	0.38	0.53		0.62	
beta-BHC	not established		0.0091	0.017	0.017	0.27	0.36	0.29	0.52	0.57	0.53	0.3	0.55	0.41	0.38	0.44	0.47	0.46		0.73	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.07	0.10	0.04J	0.13	0.1	0.11	0.071	0.083	0.086	0.093	0.12	0.12	0.15		0.22	
delta-BHC	not established			not established		0.14	0.16	0.12	0.26	0.3	0.22	0.12	0.26	0.32	0.46	0.29	0.37	0.53		0.48 P	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02	<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05		<0.095	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013	<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05		NA	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014	<0.016	<0.1	0.0075 J	<0.1	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1		<0.0062	
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01	<0.024	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1		<0.0073	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007	<0.026	<0.1	<0.1	<0.1	<0.0063	<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	0.008 J	0.0083	JQ	<0.017	<0.1	0.014 J	0.011 J	0.014 J	0.015 J	<0.0091	<0.0091	<0.10	<0.013		0.015 J	
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005	<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05		<0.0067	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03	<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5		<0.012	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062	<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5		<0.48	
Total Pesticides Concentrations (ug/L)						0.698	0.8883	0.57	1.29	1.4015	1.181	0.705	1.168	1.116	1.243	1.25	1.34	1.67		--	
Total Metals (mg/L)																					
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005		0.028
Copper	0.0152*	0.0152*	1.3	not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0918		0.78
Lead	0.0049*	0.0049*		not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001		0.014
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.46		15
Dissolved Metals (mg/L)																					
Arsenic	0.15	0.15	0.000018	0.00014	0.01	< 0.00205	0.00211	JQ	0.00328J	0.000923 J	0.001 J	0.000976 J	0.00109 J	0.00127 J	0.000716 J	0.0009 J	<0.005	0.00086 J	<0.01		<0.0013
Copper	0.0152*	0.0152*	1.3	not established		0.0177	0.0242	0.0332	0.0177	0.0484	0.0197	0.0159	0.015	0.0183	0.0244	0.0463	0.0393	0.0215			0.048
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621	0.000274J	<0.001	0.000375 J	<0.001	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.002			<0.0002
Zinc	0.200*	0.200*	7.4	26	not established	0.871	0.721	0.789	1.18	1.38	1.27	0.8	0.852	1.27	1.11	1.89	1.62	1.96			2.5
Total Dissolved Metals Concentrations (mg/L)						0.8887	0.74731	0.825754	1.198623	1.429775	1.290676	0.81699	0.86827	1.289016	1.1353	1.9363	1.66016	1.9815			--
Total Trichlorobenzenes (ug/L)																					
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA
Nitrate and Sulfate (mg/L)																					
Nitrate as N	not established		10 (nitrates)	not established	not established	1.5	1.4	1.1	1.6	2.1 J	2.5 J	1.8 J	1.8	1.9	2.2	1.9	2.5	2.3			NA
Sulfate	not established		not established	not established	not established	92	92	64	130	160	160	130	110	140	130	130	140	140			NA
Hardness as CaCo3 (mg/L)	not established		not established	not established	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			NA
pH (std units)						7.38	7.14	6.98	6.21	6.44	7.29	7.38	7.67	6.98	7.19	6.43	7.03				
Specific Conductance (mS/cm)						0.519	0.380	0.251	0.549	0.626	0.689	0.645	0.532	0.593	0.58	0.734	1.05				
Turbidity (NTUs)						7.9	0.0	7.7	0.6	0.0	0	9.9	1.6	13.2	0	25.7	0				
DO (mg/L)						8.29	9.24	4.32	7.21	5.16	5.34	6.75	4.68	10.44	10.44	9.49	10.02				
ORP (mV)						193	79	109	166	193	94	108	92	64	139	134	189				

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW-2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15	SW2010-15			
Sample Date						11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	6/4/2015	11/19/2014	5/20/2014	11/19/2013	5/30/2013	11/16/2012	9/23/2010		
Distance Along Stream (ft)						1761	1761	1761	1761	1761	1761	1761	1761	1761	1761	1761	1761	1761	1761		
PARAMETER, UNITS						Surface water sample from main channel downstream of culvert															
PARAMETER, UNITS	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health																
Total Organochlorine Pesticides (ug/L)																					
	Ecological Exposure		Human Health Exposure																		
alpha-BHC	not established		0.0026	0.0049	0.0049	0.22	0.20	JH	0.1	0.32	0.37	0.3	0.2	0.17	0.29	0.27	0.36	0.32	0.53	0.62	
beta-BHC	not established		0.0091	0.017	0.017	0.29	0.30	JH	0.27	0.47	0.51	0.49	0.29	0.45	0.4	0.36	0.40	0.41	0.46	0.75	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.071	0.084	JH	0.044J	0.11	0.087	0.11	0.065	0.057	0.082	0.087	0.11	0.1	0.15	0.22	
delta-BHC	not established			not established		0.15	0.21	JH	0.088	0.22	0.25	0.2	0.11	0.21	0.28	0.43	0.27	0.34	0.48	0.44 P	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02		<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.095	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013		<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014		<0.016	<0.1	<0.1	<0.1	<0.0082	<0.0001	<0.0091	<0.0091	<0.10	<0.014	<0.1	<0.062	
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01		<0.024	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007		<0.026	<0.1	<0.1	<0.1	0.0068 J	<0.0001	<0.0069	<0.0069	<0.10	<0.014	<0.1	<0.0092	
Dieldrin	0.056	0.056	0.00052	0.00054	0.00054	0.0078 J	<0.005		<0.017	<0.1	0.012 J	0.01 J	<0.0072	0.012 J	<0.0091	<0.0091	<0.10	<0.013	<0.1	0.017 J	
Heptachlor	0.0038	0.0038	0.00079	0.00079	0.00079	<0.005	<0.005		<0.026	<0.05	<0.5	<0.5	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0067	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03		<0.057	<0.5	<0.5	<0.5	<0.056	<0.00005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062		<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.48	
Total Pesticides Concentrations (ug/L)						0.7388	0.794		0.502	1.12	1.229	1.1	0.6718	0.899	1.052	1.147	1.14	1.17	1.62	--	
Total Metals (mg/L)																					
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0025	
Copper	0.0152*	0.0152*	1.3	not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0701	0.084	
Lead	0.0049*	0.0049*		not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.0005	
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.18	2.4	
Dissolved Metals (mg/L)																					
Arsenic	0.15	0.15	0.000018	0.00014	0.01	< 0.00205	0.00241	JQ	0.00322J	0.00104 J	0.000886 J	0.000952 J	0.00115	0.0013 J	0.000827 J	0.00096 J	<0.005	0.00098 J	<0.01	<0.0013	
Copper	0.0152*	0.0152*	1.3	not established		0.0168	0.023		0.0289	0.0156	0.0276	0.0222	0.0144	0.0108	0.018	0.0181	0.0382	0.0275	0.0179	0.038	
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621		0.000278J	<0.001	0.00022 J	<0.001	<0.000309	<0.001	<0.000099	<0.0001	<0.001	<0.00014	<0.002	<0.0002	
Zinc	0.200*	0.200*	7.4	26	not established	0.781	0.641		0.638	1.04	1.43	1.29	0.74	0.693	1.23	0.965	1.91	1.51	1.77	2.2	
Total Dissolved Metals Concentrations (mg/L)						0.949	0.66641		0.670398	1.05664	1.458706	1.313152	0.75555	0.70493	1.248827	0.98406	1.9482	1.53848	1.7879	--	
Total Trichlorobenzenes (ug/L)																					
1,2,3-Trichlorobenzene	not established			not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.95	
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.53	
Nitrate and Sulfate (mg/L)																					
Nitrate as N	not established		10 (nitrates)		not established	1.5	1.4		1.0	1.7	2.2 J	2.6	1.6 J	1.7	1.8	2.2	1.8	2.4	2.2	530	
Sulfate	not established			not established		92	90		59	140	170	160	130	110	150	130	130	140	150	330	
Hardness as CaCo3 (mg/L)						NA	NA		NA	NA	175	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						7.4	7.16		6.89	7.31	6.38	7.05	7.15	7.62	6.87	7.36	6.71	7.19			
Specific Conductance (mS/cm)						0.525	0.381		0.24	0.551	0.626	0.686	0.641	0.532	0.606	0.641	0.722	1.05			
Turbidity (NTUs)						6.9	0.0		10.7	0.4	2.9	0	11.7	13.7	3.89	9.81	22.8	25.7			
DO (mg/L)						8.79	6.6		4.40	6.9	6.35	6.09	6.94	4.75	11.09	9.93	4.03	8.93			
ORP (mV)						194	79		126	163	185	83	86	77	85	130	137	181			

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location						SW-2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17	SW2010-17			
Sample Date						11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	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)															
						2099	2099	2099	2099	2099	2099	2099	2099	2099	2099	2099	2099	2099	2099		
Total Organochlorine Pesticides (ug/L) GA Instream National AWQC National AWQC Human Consumption of Water + Organism National AWQC Human Consumption of Water GA Instream Human Health						Surface water sample from main channel downstream of culvert															
						Ecological Exposure		Human Health Exposure				0.2	0.2	JH	0.081	0.31	0.47	0.29	0.18	0.2	0.29
alpha-BHC	not established		0.0026	0.0049	0.0049	0.13	0.21	JH	0.068	0.11	0.12	0.11	0.055	0.068	0.082	0.075	0.098	0.096	0.13	0.31	
beta-BHC	not established		0.0091	0.017	0.017	0.28	0.3	JH	0.2	0.44	0.47	0.52	0.27	0.48	0.37	0.33	0.40	0.39	0.39	0.48	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.068	0.091	JH	0.039J	0.11	0.12	0.11	0.055	0.068	0.082	0.075	0.098	0.096	0.13	0.11	
delta-BHC	not established			not established		0.13	0.21	JH	0.068	0.11	0.12	0.11	0.055	0.068	0.082	0.075	0.098	0.096	0.13	0.21 P	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02		<0.039	<0.05	0.0045 J	<0.05	<0.014	<0.00005	<0.0022	<0.0022	<0.050	<0.0066	<0.05	<0.094	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013		<0.062	<0.05	0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	<0.050	<0.0047	<0.05	NA	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014		<0.016	<0.1	<0.1	<0.1	<0.0082	<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	<0.01	<0.01		0.00022	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	<0.10	<0.0075	<0.1	<0.0073	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007		<0.026	<0.1	<0.1	<0.1	<0.0063	<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	0.0088 J	<0.005		<0.017	<0.1	0.011 J	0.011 J	<0.0072	0.013 J	<0.0091	<0.0091	<0.10	<0.013	<0.1	<0.0086	
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005		<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	<0.050	<0.0038	<0.05	<0.0066	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03		<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	<0.50	<0.08	<0.5	<0.012	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062		<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	<5.0	<0.085	<5	<0.47	
Total Pesticides Concentrations (ug/L)						0.6868	0.801		0.388	1.06	1.3455	1.141	0.6	0.991	1.002	1.045	1.068	1.166	1.39	--	
Total Metals (mg/L)						NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.005	0.0029
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0544	0.054
Copper	0.0152*	0.0152*	1.3	not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.001	<0.0005
Lead	0.0049*	0.0049*		not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.83	1.9
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Dissolved Metals (mg/L)						< 0.00205	0.0024	JQ	0.00298J	0.00124 J	0.00114 J	0.00112 J	0.00111 J	0.00143 J	0.000935 J	0.00122 J	<0.005	0.00096 J	<0.01	0.0013 J	
Arsenic	0.15	0.15	0.000018	0.00014	0.01	0.0133	0.0251		0.0225	0.0115	0.0165	0.0116	0.0107	0.00947	0.014	0.017	0.0314	0.0225	0.0127	0.024	
Copper	0.0152*	0.0152*	1.3	not established		<0.000621	<0.000621		0.000294J	<0.001	0.000382 J	<0.001	<0.000309	<0.001	<0.000099	<0.0001	0.00126	<0.00014	<0.002	<0.0002	
Lead	0.0049*	0.0049*		not established		0.677	0.587		0.461	0.868	1.2	0.89	0.704	0.697	1.12	0.956	1.75	1.31	1.47	1.6	
Zinc	0.200*	0.200*	7.4	26	not established	0.6903	0.6145		0.486774	0.88074	1.218022	0.90272	0.71581	0.7079	1.134935	0.97422	1.78266	1.33346	1.4827	--	
Total Dissolved Metals Concentrations (mg/L)						0.6903	0.6145		0.486774	0.88074	1.218022	0.90272	0.71581	0.7079	1.134935	0.97422	1.78266	1.33346	1.4827	--	
Total Trichlorobenzenes (ug/L)						NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	not established			not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate and Sulfate (mg/L)						1.4	1.3		0.83	1.6	2 J	2.6	1.6 J	1.7	1.8	2.1	1.8	2.3	1.9	NA	
Nitrate as N	not established		10 (nitrates)	not established		86	88		48	130	160	150	120	110	150	120	130	140	130	NA	
Sulfate	not established			not established		NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness as CaCo3 (mg/L)						NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH (std units)						7.24	6.79		6.76	7.05	5.8	7.21	6.7	7.16	6.26	6.59	6.82	7.38			
Specific Conductance (mS/cm)						0.53	0.376		0.228	0.547	0.636	0.678	0.647	0.533	0.593	0.643	0.734	1.04			
Turbidity (NTUs)						11.8	0.0		5	9.6	15.0	8.9	14.1	11.5	8.74	0	0	10.1			
DO (mg/L)						8.21	7.92		4.99	7.56	7.68	6.66	7.99	5.66	13.76	14.19	6.99	7.6			
ORP (mV)						206	99		110	137	184	115	35	33	145	92	52	181			

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

Sample Location Sample Date						SW-2014-20 11/19/2018	SW2014-20 5/18/2018	SW2014-20 11/9/2017	SW2014-20 5/11/2017	SW2014-20 11/15/2016	SW2014-20 6/9/2016	SW2014-20 11/18/2015	SW2014-20 6/4/2015	SW2014-20 11/19/2014	SW2014-20 5/20/2014	
PARAMETER, UNITS						Distance Along Stream (ft)										
						Side seep inflowing into drainage feature located on west side of track and upstream of railroad culvert location SW-2010-11										
						Seep sample										
Total Organochlorine Pesticides (ug/L)	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health											
	Ecological Exposure		Human Health Exposure													
alpha-BHC	not established		0.0026	0.0049	0.0049	0.21	0.18	0.24	0.37	0.54	0.44	0.33	0.33	0.14	0.28	
beta-BHC	not established		0.0091	0.017	0.017	1.3	1.1	1.6	1.8	3.0	3.4	2.1	2.2	1.5	1.0	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.12	0.11	0.13	0.21	0.25	0.22	0.16	0.16	0.078	0.13	
delta-BHC	not established			not established		0.12	0.10	0.2	0.18	0.28	0.29	0.17	0.3	0.18	0.49	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02	<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013	<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.005	<0.005	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014	<0.016	<0.1	<0.1	<0.1	<0.0082	<0.0001	<0.0091	<0.0091	
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01	<0.024	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007	<0.026	<0.1	<0.1	<0.1	<0.0063	<0.0001	<0.0069	<0.0069	
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	0.026 J	0.023	JQ	0.033J	0.03 J	0.056 J	0.049 J	0.038 J	0.046 J	<0.0091	0.021 J
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005	<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03	<0.057	<0.5	0.032 J	<0.5	<0.056	<0.0005	<0.043	<0.043	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062	<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	
Total Pesticides Concentrations (ug/L)						1.776	1.513	2.203	2.59	4.158	4.399	2.798	3.036	1.898	1.921	
Total Metals (mg/L)																
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	0.0152*	0.0152*	1.3	not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.0049*	0.0049*		not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals (mg/L)																
Arsenic	0.15	0.15	0.000018	0.00014	0.01	< 0.00205	<0.041	<0.000156	0.000491 J	0.000316 J	0.000441 J	0.000183 J	0.000338 J	<0.000536	<0.00054	
Copper	0.0152*	0.0152*	1.3	not established		0.173	0.119	0.195	0.25	0.641	0.509	0.227	0.148	0.157	0.229	
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621	<0.000215	<0.001	0.000388 J	0.000147 J	<0.000309	<0.001	0.00281	<0.0001	
Zinc	0.200*	0.200*	7.4	26	not established	5.06	3.2	5.24	4.5	11.8	7.7	5.84	5.86	4.24	5.65	
Total Dissolved Metals Concentrations (mg/L)						5.233	3.319	5.435	4.750491	12.441704	8.209588	6.067183	6.008338	4.39981	5.879	
Total Trichlorobenzenes (ug/L)																
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	not established		35	70	70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nitrate and Sulfate (mg/L)																
Nitrate as N	not established		10 (nitrates)		not established	5.9	5.4	JH	6.2	5.9	11	11	6.9	7.1	8.3	9.5
Sulfate	not established			not established		200	200		230	240	420	470	300	270	350	330
Hardness as CaCo3 (mg/L)						NA	NA	NA	NA	258	NA	NA	NA	NA	NA	
pH (std units)						6.79	6.83	6.57	6.82	5.52	6.14	6.67	7.07	6.57	6.74	
Specific Conductance (mS/cm)						0.665	0.569	0.548	0.658	0.909	1.12	0.821	0.783	0.867	1.09	
Turbidity (NTUs)						8.7	0.0	0.0	1.1	0.0	21.6	0.2	139	13.5	0	
DO (mg/L)						5.95	10.67	3.90	5.6	3.58	5.26	5.37	2.99	7.14	7.62	
ORP (mV)						212	98	147	195	223	158	175	153	120	179	

TABLE 4: SUMMARY OF SURFACE WATER ANALYTICAL RESULTS

PARAMETER, UNITS	Sample Location					SW-2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	SW2014-21	
	Sample Date					11/19/2018	5/18/2018	11/9/2017	5/11/2017	11/15/2016	6/9/2016	11/18/2015	6/4/2015	11/19/2014	5/20/2014	
	Distance Along Stream (ft)					Side seep inflowing into drainage feature on west side of track and about 85 ft upstream of location SW2014-20										
	GA Instream	National AWQC	National AWQC Human Consumption of Water + Organism	National AWQC Human Consumption of Water	GA Instream Human Health	Seep sample										
Total Organochlorine Pesticides (ug/L)	Ecological Exposure					Human Health Exposure										
alpha-BHC	not established		0.0026	0.0049	0.0049	0.17	0.14	0.15	0.29	0.38	0.31	0.17	0.25	0.2	0.22	
beta-BHC	not established		0.0091	0.017	0.017	1.5	1.2	1.2	3.4	3.9	3.8	2.2	2.2	1.2	1.2	
gamma-BHC (lindane)	0.95 (acute)	0.95 (acute)	0.98	1.8	1.8	0.11	0.091	0.07	0.22	0.18	0.18	0.092	0.13	0.10	0.11	
delta-BHC	not established			not established		0.13	0.1	0.17	0.24	0.27	0.29	0.13	0.22	0.15	0.53	
Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.02	<0.02	<0.039	<0.05	<0.05	<0.05	<0.014	<0.00005	<0.0022	<0.0022	
gamma-Chlordane	0.0043	0.0043	0.0008	0.00081	0.00081	<0.013	<0.013	<0.062	<0.05	<0.05	<0.05	<0.0047	<0.00005	<0.0050	<0.005	
4,4'-DDD	not established		0.00031	0.00031	0.00031	<0.014	<0.014	<0.016	<0.1	<0.1	<0.1	<0.0082	<0.0001	<0.0091	<0.0091	
4,4'-DDE	not established		0.00022	0.00022	0.00022	<0.01	<0.01	<0.024	<0.1	<0.1	<0.1	<0.0069	<0.0001	<0.006	<0.006	
4,4'-DDT	0.001	0.001	0.00022	0.00022	0.00022	<0.007	<0.007	<0.026	<0.1	<0.1	<0.1	<0.0063	<0.0001	<0.0069	<0.0069	
Dieldrin	0.056	0.056	0.000052	0.000054	0.000054	0.033 J	0.030	JQ	0.026J	0.058 J	0.066 J	0.066 J	0.041 J	0.043 J	<0.0091	0.020 J
Heptachlor	0.0038	0.0038	0.000079	0.000079	0.000079	<0.005	<0.005	<0.026	<0.05	<0.05	<0.05	<0.0079	<0.00005	<0.0072	<0.0072	
Methoxychlor	0.03	0.03	100	not established		<0.03	<0.03	<0.057	<0.5	<0.5	<0.5	<0.056	<0.0005	<0.043	<0.043	
Toxaphene	0.0002	0.0002	0.00028	0.00028	0.00028	<0.062	<0.062	<0.21	<3.0	<3	<3	<0.18	<0.005	<0.16	<0.16	
Total Pesticides Concentrations (ug/L)						1.943	1.561	1.616	4.208	4.796	4.646	2.633	2.843	1.65	2.06	
Total Metals (mg/L)																
Arsenic	0.15	0.15	0.000018	0.00014	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	0.0152*	0.0152*	1.3	not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.0049*	0.0049*		not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	0.200*	0.200*	7.4	26	not established	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (mg/L)																
Arsenic	0.15	0.15	0.000018	0.00014	0.01	< 0.00205	<0.041	<0.000156	0.000342 J	0.000312 J	0.000321 J	0.000180 J	0.000272 J	<0.000536	<0.00054	
Copper	0.0152*	0.0152*	1.3	not established		0.227	0.14	0.122	0.756	0.901	0.682	0.327	0.348	0.0714	0.296	
Lead	0.0049*	0.0049*		not established		<0.000621	<0.000621	<0.000215	<0.001	0.00053 J	0.000321 J	<0.000309	<0.001	<0.000099	<0.0001	
Zinc	0.200*	0.200*	7.4	26	not established	5.7	3.41	2.64	9.67	12.4	8.45	6.35	7.05	3.75	6.13	
Total Dissolved Metals Concentrations (mg/L)						5.927	3.55	2.762	10.426342	12.490942	9.132642	6.67718	7.398272	3.8214	6.426	
Total Trichlorobenzenes (ug/L)																
1,2,3-Trichlorobenzene	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	not established		35	70	70	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	6.5	5.4	JH	0.56	8.9	11	11	7.6	8.4	8.1	9.9
Sulfate	not established			not established		200	190		40	380	410	470	310	310	280	360
Hardness as CaCo3 (mg/L)	not established			not established		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (std units)						6.61	6.53	6.6	6.38	5.24	5.95	6.63	6.82	6.58	6.75	
Specific Conductance (mS/cm)						0.681	0.588	0.463	0.803	0.888	1.13	0.858	0.797	0.876	1.14	
Turbidity (NTUs)						10.6	1.86	6.2	4.9	20.1	5.3	0	0.2	62.5	0	
DO (mg/L)						4.52	6.83	2.82	4.7	2.83	6.47	4.72	2.14	8.02	7.09	
ORP (mV)						223	129	142	209	192	157	173	135	115	156	

Notes:

<0.025 = Constituent not detected above the detection limit shown
 ug/L = micrograms per liter
 mg/L = milligrams per liter
 J = Result reported between the method detection limit (MDL) and reporting limit (RL). Result is a quantitative estimate.
 J Q= Estimated, detected between the method detection limit (MDL) and reporting limit (RL).
 J H= Estimated, possibly biased high
 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 an average hardness of 186 mg/L from November 2016
Bolded = indicates a positive detection in the 2012 through 2018 results
 2012 through 2018 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013) for Ecological Exposure
 2012 through 2018 Sampling Results that exceeded Georgia Instream Concentrations (GEPD 2013) for Human Health Exposure (used when there was not an ecological exposure criteria)

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

Well		MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-1B	MW-22	MW-22	MW-22	MW-22
Date Sampled		11/7/2018	5/8/2018	10/31/2017	5/2/2017	11/8/2016	11/8/2016	6/1/2016	11/10/2015	5/27/2015	11/11/2014	11/12/2018	5/15/2018	11/1/2017	5/4/2017
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	13	7.2	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	12	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	13	7.2	12	BDL

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

Well	MW-22	MW-22	MW-22	MW-22	MW-22	MW-22	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-25	MW-26
Date Sampled	11/8/2016	6/6/2016	11/12/2015	5/29/2015	11/12/2014	9/13/2010	11/8/2018	5/17/2018	5/10/2017	11/10/2016	6/7/2016	11/13/2015	6/2/2015	11/9/2018
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	Units													
1,1,1,2-Tetrachloroethane	ug/L						<1							
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<9.5	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<10	<50.0	<50.0	<50.0	<50.0	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<25	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<1	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<10	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	6.9	8.1	10	9.2	2.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<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	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<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	<1	<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	<1	<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	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	6.9	8.1	10	9.2	2.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-26	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	MW-101	
Date Sampled	5/10/2018	11/1/2017	5/3/2017	11/9/2016	6/2/2016	11/11/2015	5/28/2015	11/7/2018	5/9/2018	11/1/2017	5/2/2017	11/8/2016	6/1/2016	11/10/2015	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	
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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	MW-101	MW-101	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-104A	MW-104A	MW-104A	MW-104A
Date Sampled	5/27/2015	11/11/2014	11/7/2018	5/8/2018	10/31/2017	5/2/2017	11/8/2016	6/2/2016	11/10/2015	5/27/2015	11/8/2018	5/9/2018	11/2/2017	5/3/2017	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	Units														
1,1,1,2-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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.9	6.7
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6.9	6.7

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

Well	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104A	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D	MW-104D
Date Sampled	11/8/2016	6/3/2016	11/11/2015	6/1/2015	11/12/2014	9/15/2010	11/8/2018	5/9/2018	11/2/2017	5/3/2017	11/9/2016	6/6/2016	11/12/2015	6/3/2015
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Constituent	Units													
1,1,1,2-Tetrachloroethane	ug/L						<1							
1,1,1-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	28
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0		<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	73	38,000	48,000	<150000	<150000	<150000	<150,000	<150000
2-Butanone	ug/L	<50	<50	<50	<50	<50	<10	140,000	260,000	200,000	250,000	320,000	350,000	350,000
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	66,000	97,000	89,000	85,000	110,000	130,000	110,000
Acetone	ug/L	<50	<50	<50	<50	<50	<25	160,000	230,000	180,000	200,000	240,000	290,000	390,000
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	360
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	20
Chloroethane	ug/L	<10	<10	<10	<10	<10	<1	<1000	<1000	<10000	<10000	<10000	<10000	100
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<10	<1	<500	<500	<5000	<5000	<5000	<5000	<10000
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	3,800	4,600	<5000	<5000	<5000	<5000	4,200
Isobutyl Alcohol	ug/L	<200	<200	<200	<200			<20000	<20000	<200000	<200000	<200000	<200,000	<200000
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	67
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<500	<500	<5000	<5000	<5000	<5000	52
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0		<5	<500	<500	<5000	<5000	<5000	<5000	120
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Tetrahydrofuran	ug/L	<10	<10	<10	<10		<10	49,000	38,000	53,000	44,000	60,000	72,000	57,000
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	40,000	53,000	54,000	74,000	69,000	83,000	66,000
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	40
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<1	<500	<500	<5000	<5000	<5000	<5000	<5000
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<1	<200	<200	<2000	<2000	<2000	<2000	<2000
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0		<2	18,000	15,000	13,000	20,000	21,000	18,000	22,000
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	73	514,800	745,600	589,000	673,000	820,000	943,000	995,000

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

Well		MW-104D	MW-104D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-106D	MW-107D	MW-107D	MW-107D
Date Sampled		11/13/2014	9/15/2010	11/14/2018	5/11/2018	11/6/2017	5/8/2017	11/9/2016	6/7/2016	11/13/2015	6/2/2015	11/9/2018	5/9/2018	11/3/2017
Lithology Screened		Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock
Constituent	Units													
1,1,1,2-Tetrachloroethane	ug/L		<200											
1,1,1-Trichloroethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L		<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L		11,000	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	260,000	380,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	120,000	140,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	290,000	370,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	290	330	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<250		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<500	390	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<500	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	4,300	3,900	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L			<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<250	<1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L		<1000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L		69,000	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	67,000	62,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<250	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<100	<200	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	19,700	18,000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	761,290	1,054,620	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	MW-107D	MW-107D	MW-107D	MW-107D	MW-107D	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-108	MW-109
Date Sampled	5/4/2017	11/9/2016	6/6/2016	11/12/2015	6/1/2015	11/8/2018	5/10/2018	11/2/2017	5/3/2017	11/10/2016	6/2/2016	11/11/2015	5/28/2015	11/15/2018
Lithology Screened	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL

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

Well	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110	MW-110
Date Sampled	5/15/2018	11/7/2017	5/9/2017	11/10/2016	6/8/2016	11/16/2015	6/3/2015	11/9/2018	5/11/2018	11/2/2017	5/5/2017	11/10/2016	6/3/2016	11/11/2015
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	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	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	6.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.9	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	6.6	BDL	BDL	BDL	BDL	7.9	BDL	BDL	BDL

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

Well	MW-110	MW-110	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-112	MW-112	MW-112	MW-112
Date Sampled	5/29/2015	11/12/2014	11/15/2018	5/15/2018	11/8/2017	5/9/2017	11/10/2016	6/8/2016	11/16/2015	6/3/2015	11/8/2018	5/10/2018	11/1/2017	5/2/2017	
Lithology Screened	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	94	96	86	110	80	100	93	97	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	94	96	86	110	80	100	93	97	BDL	BDL	BDL	BDL

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

Well	MW-112	MW-112	MW-112	MW-112	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-114	MW-114
Date Sampled	11/9/2016	6/2/2016	11/10/2015	5/28/2015	11/15/2018	5/14/2018	11/6/2017	5/8/2017	11/10/2016	6/7/2016	11/16/2015	6/2/2015	11/15/2018	5/14/2018	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	Units														
1,1,1,2-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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	63	46	79	85	66	60	58	56	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	60	26	88	84	62	51	51	44	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	123	72	167	169	128	111	109	100	BDL	BDL

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

Well	MW-114	MW-114	MW-114	MW-114	MW-114	MW-114	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115
Date Sampled	11/6/2017	5/8/2017	11/10/2016	6/7/2016	11/16/2015	6/2/2015	11/12/2018	5/10/2018	11/3/2017	5/5/2017	11/10/2016	6/7/2016	11/16/2015	6/1/2015
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well		MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-116	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117
Date Sampled		11/9/2018	5/14/2018	11/2/2017	5/4/2016	11/10/2016	6/3/2016	11/12/2015	5/28/2015	11/13/2018	5/10/2018	11/3/2017	11/3/2017	5/4/2017	11/10/2016
Lithology Screened		Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	MW-117	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-119	MW-120	MW-120	MW-120	MW-120	
Date Sampled	6/3/2016	11/16/2018	5/15/2018	11/7/2017	5/9/2017	11/11/2016	6/8/2016	11/17/2015	6/5/2015	11/18/2014	11/16/2018	5/16/2018	11/7/2017	5/9/2017		
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Shallow Fractured Bedrock	Shallow Fractured Bedrock	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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	220	750	<150	<150	<150	340	<150	370		<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	16	14	16	13	
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.6	6.8	9.3	6.2	
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	220	750	BDL	BDL	BDL	340	BDL	370	BDL	24.6	20.8	25.3	19.2	

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

Well	MW-120	MW-120	MW-120	MW-120	MW-120	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	MW-121	TW-1
Date Sampled	11/11/2016	6/8/2016	11/17/2015	6/4/2015	11/19/2014	11/14/2018	5/11/2018	11/7/2017	5/10/2017	11/11/2016	6/7/2016	11/13/2015	6/5/2015	11/12/2018	
Lithology Screened	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	Shallow Fractured Bedrock	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	<5.0	<5.0	<5.0	<5.0	<5.0	5.8
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	7.1
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	220	420	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	0.87 J	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0
cis-1,2-Dichloroethene	ug/L	12	11	8.6	7.1	7.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1,200
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	13.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	6.5	6.3	8.5	<5.0	3.4 J	<5.0	<5.0	5.4	<5.0	<5.0	<5.0	<5.0	<5.0	1,000
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.9
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	18.5	17.3	17.1	227.1	427.6	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL	2,255.8

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

Well	TW-1	TW-1	TW-1	TW-1	TW-1	TW-1	TW-1	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	TW-2	
Date Sampled	5/9/2018	11/1/2017	5/3/2017	11/9/2016	6/2/2016	11/11/2015	5/28/2015	11/12/2018	5/11/2018	11/2/2017	5/4/2017	11/9/2016	6/2/2016	11/12/2015	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	
Constituent	Units														
1,1,1,2-Tetrachloroethane	ug/L														
1,1,1-Trichloroethane	ug/L	5.0	8.3	<5.0	6.6	<5.0	<5.0	9.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	6.3	<5.0	6.0	<5.0	<5.0	6.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	8.9	8.7	13	13	14	13	18	
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
cis-1,2-Dichloroethene	ug/L	820	1,500	600	880	250	350	580	21	17	31	42	75	58	69
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	13.0	9.7	110	<5.0	90	11	48	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	7.0	13	<5.0	7.8	5.9	5.7	11	14	16	9.6	8.8	<5.0	5.5	6.9
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	920	1,600	720	1,200	720	1,000	1,900	20	19	33	32	55	46	68
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	2.8	11	2.9	12	2.6	3.6	5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	11	<5.0	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	1,767.8	3,148.3	1,443.9	2,112.4	1,068.5	1,370.3	2,565.7	63.9	60.7	86.6	95.8	144	122.5	161.9

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

Well	TW-2	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-3	TW-4	TW-4	TW-4	TW-4
Date Sampled	5/28/2015	11/13/2018	5/15/2018	11/2/2017	5/4/2017	11/10/2016	6/3/2016	11/12/2015	6/5/2015	11/13/2014	11/12/2018	5/15/2018	11/3/2017	5/4/2017	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	Units														
1,1,1,2-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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	15	13	13	13	13	15	10	11	8.6	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	25	20	20	20	19	15	15	13	14	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	53	170	130	120	170	170	130	200	140	200	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	8.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	51	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	2.2	<2.0	2	2.2	3	2.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	126.9	212.2	163	155	205.2	205	162.2	225	164	222.6	BDL	BDL	BDL	BDL

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

Well	TW-4	TW-4	TW-4	TW-4	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-5	TW-6
Date Sampled	11/9/2016	6/3/2016	11/12/2015	5/29/2015	11/14/2018	5/15/2018	11/3/2017	5/5/2017	11/10/2016	6/3/2016	11/16/2015	6/1/2015	11/13/2014	11/14/2018	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
Constituent	Units														
1,1,1,2-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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<10	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-6	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7	TW-7
Date Sampled	5/16/2018	11/6/2017	5/5/2017	11/11/2016	6/6/2016	11/16/2015	6/1/2015	11/15/2018	5/16/2018	11/7/2017	5/9/2017	11/11/2016	6/6/2016	11/17/2015
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	TW-7	TW-7	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-8	TW-9	TW-9	TW-9	TW-9	
Date Sampled	6/5/2015	11/18/2014	11/15/2018	5/16/2018	11/6/2017	5/8/2017	11/14/2016	6/6/2016	11/13/2015	6/2/2015	11/16/2018	5/16/2018	11/6/2017	5/8/2017		
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	
Constituent	Units															
1,1,1,2-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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	120	90	14	82	<5.0	35	78	69	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	ug/L	<5.0	<5.0	130	170	6.1	270	<5.0	45	140	110	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	1,100	1,100	250	1,600	80	420	810	550	<5.0	<5.0	7.6	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	1,350	1,360	270.1	1,952	80	500	1,028	729	BDL	BDL	7.6	BDL	BDL

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

Well	TW-9	TW-9	TW-9	TW-9	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-10	TW-11	TW-11
Date Sampled	11/14/2016	6/7/2016	11/17/2015	6/8/2015	11/16/2018	5/17/2018	11/7/2017	5/9/2017	11/14/2016	6/7/2016	11/17/2015	6/8/2015	6/1/2016	11/11/2015
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil
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	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	ug/L	<5.0	<5.0	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<5.0	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<10	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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

Well	TW-11	TW-12	TW-12	TW-12	OW-1	OW-1	OW-1	OW-1	OW-1	OW-1	OW-2	OW-2	OW-2	OW-2	
Date Sampled	5/27/2015	6/1/2016	11/10/2015	5/27/2015	11/16/2018	5/14/2018	11/8/2017	5/10/2017	11/11/2016	6/8/2016	11/16/2018	5/15/2018	11/8/2017	5/10/2017	
Lithology Screened	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	Residual Soil	
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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloropropene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11	5.1	7.2	<5.0	
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.9	<5.0	<5.0	
Carbon tetrachloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Carbon Disulfide	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Chlorobenzene	ug/L	<5.0	<5.0	<5.0	<5.0	56	41	72	54	57	47	270	300	230	100
Chloroethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane	ug/L	<10	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrahydrofuran	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl chloride	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total VOCs	ug/L	BDL	BDL	BDL	BDL	56	41	72	54	57	47	281	315	237.2	100

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

Well	OW-2	OW-2	OW-3	OW-3	OW-3	OW-3	OW-3	OW-3	OW-3
Date Sampled	11/14/2016	6/8/2016	11/16/2018	5/15/2018	11/8/2017	5/10/2017	11/14/2016	6/8/2016	
Lithology Screened	Residual Soil	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	<5.0
1,2,4-Trichlorobenzene (VOC)	ug/L	6.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dioxane	ug/L	<150	<150	<150	<150	<150	<150	<150	<150
2-Butanone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	ug/L	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
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	220	22	6.2	15	33	19	18	14
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	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cyclohexane	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Isobutyl Alcohol	ug/L	<200	<200	<200	<200	<200	<200	<200	<200
Isopropylbenzene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene (VOC)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
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	<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
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	<5.0
Total VOCs	ug/L	226.8	22	6.2	15	33	19	18	14

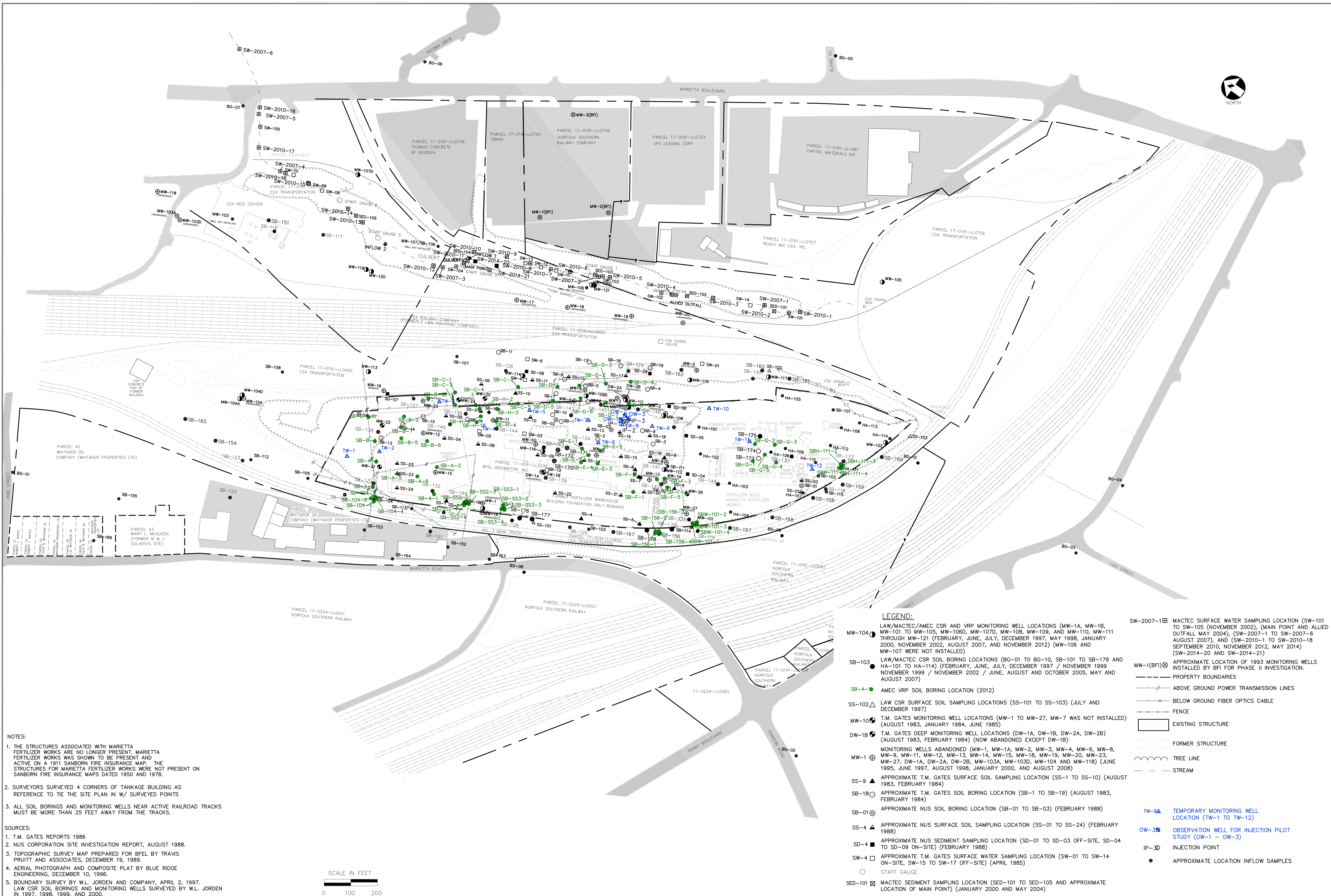
Notes
 ug/L = micrograms per liter
 <5.0 = constituent not detected above laboratory quantitation limit
 Bolded concentrations are positive detection of constituents
 VOCs = volatile organic compounds analyzed by USEPA method 8260B
 BDL = below detection limit (below laboratory quantitation limit)
 1,1,1,2-Tetrachloroethane has not been analyzed since September 2010

Prepared by: RB 1/15/2019
 Checked by: RNO 1/21/2019

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 # Invoice Date	Description of Services
Gregory J. Wrenn, P.E.	9.0	6/16/2018 to 7/27/2018	H09101606	Completion of surface soil risk assessment. Preparation of Status Report No. 13 (August 2018). General project management.
Total Project Hours for Billing Period	340.4		8/15/2018	
Gregory J. Wrenn, P.E.	0.0	7/28/2018 to 8/24/2018	H09101681	Finalized and submitted VRP Status Report No. 13 (August 2018) including surficial soil risk assessment. Evaluation of impact of surface soil risk assessment on Remediation Plan. Evaluate path forward for potential VRP Consent Order and meeting with EPD.
Total Project Hours for Billing Period	21.0		9/10/2018	
Gregory J. Wrenn, P.E.	4.0	8/25/2018 to 9/21/2018	H09101787	Submitted revised Stream Buffer Variance Application to EPD. Returned signed access agreement amendment for surficial PRB to CSX. Preparation for meeting with EPD. Reviewed draft of proposed Consent Order.
Total Project Hours for Billing Period	10.5		10/8/2018	
Gregory J. Wrenn, P.E.	8.0	9/22/2018 to 11/2/2018	H09101885	Preparation for and attendance at a meeting with EPD and BFEL representatives to discuss the results of the human health and ecological risk assessments, results of the surface soil investigation, and the path forward for the site. Submitted revised Stream Buffer Variance Application to EPD. Coordinated second 2018 semi-annual groundwater and surface water sampling event.
Total Project Hours for Billing Period	47.5		11/12/2018	
Gregory J. Wrenn, P.E.	5.0	11/3/2018 to 11/30/2018	H09101992	Conducted second 2018 semi-annual groundwater and surface water sampling event.
Total Project Hours for Billing Period	266.2		12/11/2018	
Gregory J. Wrenn, P.E.	2.0	12/1/2018 to 12/28/2018	H09102053	Evaluation of EPD questions on risk assessment. Data management and initiation of preparation of Status Report No. 14 (February 2019). General project management.
Total Project Hours for Billing Period	22.0		1/9/2019	
Total Hours for PE Gregory J. Wrenn	28.0			
Total Project Hours	707.6			

FIGURES



NOTES:

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

SOURCES:

1. T.M. GATES REPORTS 1986
2. NUS CORPORATION SITE INVESTIGATION REPORT, AUGUST 1988.
3. TOPOGRAPHIC SURVEY MAP PREPARED FOR BFEI BY TRAVIS PRUITT AND ASSOCIATES, DECEMBER 19, 1989.
4. AERIAL PHOTOGRAPH AND COMPOSITE PLAT BY BLUE RIDGE ENGINEERING, DECEMBER 10, 1996.
5. BOUNDARY SURVEY BY W.L. JORDEN AND COMPANY, APRIL 2, 1997. LAW CSR SOIL BORINGS AND MONITORING WELLS SURVEYED BY W.L. JORDEN IN 1997, 1998, 1999, AND 2000.
6. MARIETTA FERTILIZER WORKS STRUCTURES FROM SANBORN FIRE INSURANCE MAP 1911.
7. MACTEC/LAW CSR SOIL BORINGS AND MONITORING WELLS (2002-2007) AND SURFACE WATER LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING INC.
8. PROPERTY OWNERS SHOWN ARE BASED ON 1996 FULTON COUNTY TAX RECORDS
9. WHITAKER AND MARY L. MCGUIRE 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 @ 0.01, 55° FROM SURVEY FILE COORDINATE POSITION.



- LEGEND:**
- MW-104 ● LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW-106 AND MW-107 WERE NOT INSTALLED)
 - SB-103 ● LAW/MACTEC CSR SOIL BORING LOCATIONS (BG-01 TO BG-10, SB-101 TO SB-179 AND HA-101 TO HA-114) (FEBRUARY, JUNE, JULY, DECEMBER 1997 / NOVEMBER 1999 / NOVEMBER 2002 / JUNE, AUGUST AND OCTOBER 2005, MAY AND AUGUST 2007)
 - SB-A ● 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-18 ● 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-9A ● TEMPORARY MONITORING WELL LOCATION (TW-1 TO TW-12)
 - OW-3 ● OBSERVATION WELL FOR INJECTION PILOT STUDY (OW-1 - OW-3)
 - IP-3D ● INJECTION POINT
 - APPROXIMATE LOCATION INFLOW SAMPLES

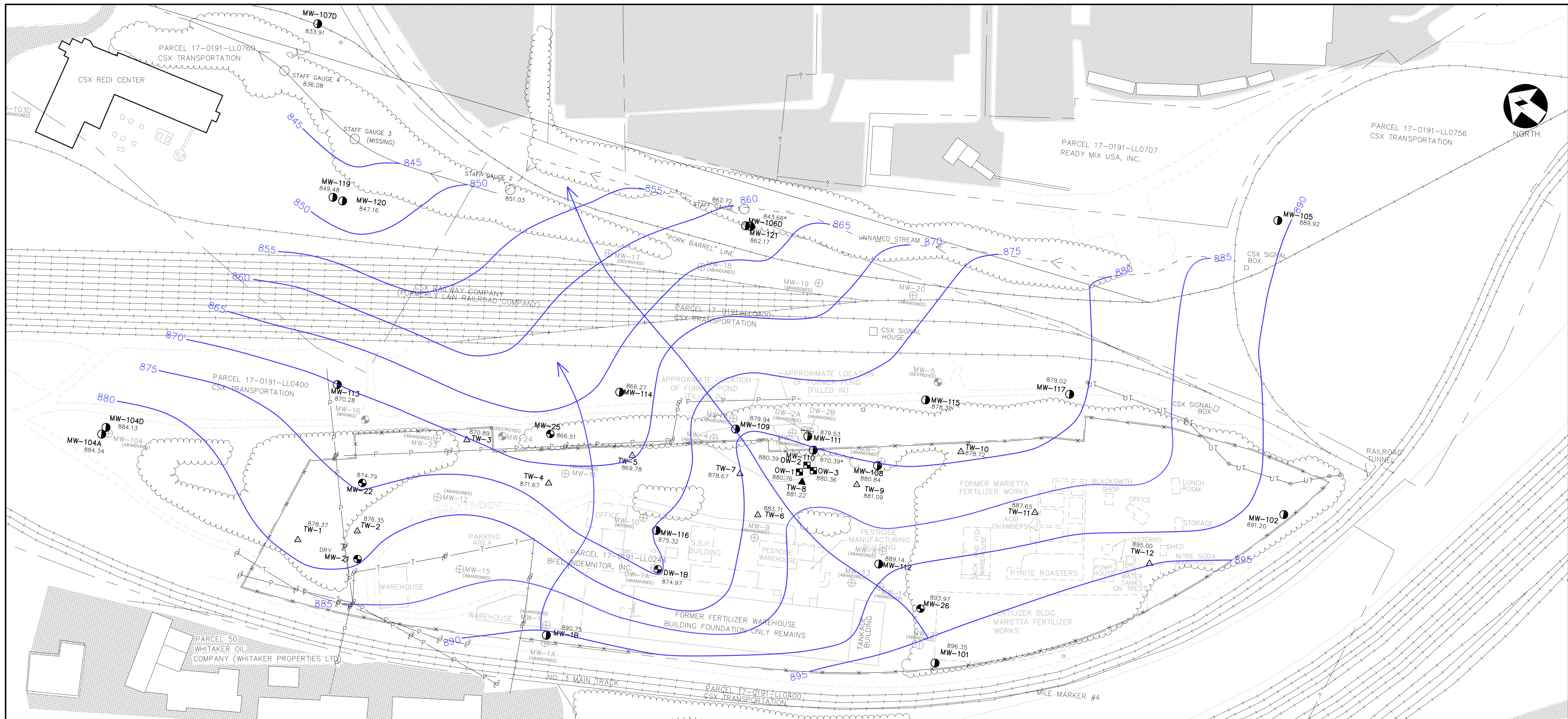
REV	DATE	BY	SUB APP	DESCRIPTION	REV	DATE	BY	SUB APP	DESCRIPTION

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

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



NOTES:

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

SOURCES:

1. T.M. GATES REPORTS 1986
2. NUS CORPORATION SITE INVESTIGATION REPORT, AUGUST 1988.
3. TOPOGRAPHIC SURVEY MAP PREPARED FOR BFEL BY TRAVIS PRUITT AND ASSOCIATES, DECEMBER 19, 1989.
4. AERIAL PHOTOGRAPH AND COMPOSITE PLAT BY BLUE RIDGE ENGINEERING, DECEMBER 10, 1996.
5. BOUNDARY SURVEY BY W.L. JORDEN AND COMPANY, APRIL 2, 1997. LAW CSR SOIL BORINGS AND MONITORING WELLS SURVEYED BY W.L. JORDEN IN 1997, 1998, 1999, AND 2000.
6. MARIETTA FERTILIZER WORKS STRUCTURES FROM SANBORN FIRE INSURANCE MAP 1911.
7. AMEC/MACTEC/LAW CSR AND VRP SOIL BORINGS AND MONITORING WELLS (2002-2012) AND SURFACE WATER LOCATIONS SURVEYED BY MACTEC ENGINEERING AND CONSULTING INC. AND AMEC.
8. PROPERTY OWNERS SHOWN ARE BASED ON 1996 FULTON COUNTY TAX RECORDS.
9. WHITAKER AND MARY L. McQUEEN PROPERTY BOUNDARIES WERE REVISED AND ARE APPROXIMATE AND ARE BASED ON FULTON COUNTY BOARD OF ASSESSORS RECORDS 2004-2005 AT www.fultonassessor.org

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

LEGEND:

- MW-104 ● LAW/MACTEC/AMEC/ CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AND AUGUST 2007, AND NOVEMBER-DECEMBER 2012, (MW-106 AND MW-107 WERE NOT INSTALLED))
 - MW-10 ● T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
 - DW-1B ● T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984)
 - TW-10 ▲ TEMPORARY MONITORING WELL LOCATIONS (TW-1 THROUGH TW-12) (MAY 2012) AND (OW-1 THROUGH OW-3) (JANUARY 2013)
 - MW-19 ⊕ MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-6, MW-8, MW-9, MW-11, MW-12, MW-13, MW-14, MW-15, MW-18, MW-19, MW-20, MW-23, MW-27, DW-1A, DW-2A, DW-2B, AND MW-104) (JUNE 1995, JUNE 1997, AUGUST 1998, JANUARY 2000, AUGUST 2007). MW-103A, MW-103D AND MW-118 ABANDONED BY CSX, FEBRUARY 2008.
- EXISTING STRUCTURE
 - FORMER STRUCTURE
 - TREE LINE
 - STREAM
 - 890 — POTENTIOMETRIC SURFACE CONTOUR (FEET, NGVD)
 - INTERPRETED GROUND-WATER FLOW DIRECTION
 - 897.72 GROUNDWATER ELEVATION (FEET, NGVD)
 - * 843.77 GROUNDWATER ELEVATIONS IN WELLS NOT USED TO CALCULATE POTENTIOMETRIC SURFACE
 - STREAM GAUGE
 - PROPERTY BOUNDARIES
 - ABOVEGROUND POWER TRANSMISSION LINES
 - BELOWGROUND FIBER OPTICS CABLE
 - FENCE



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CHECKED	R. QUINN
IN CHARGE	G. WRENN
DATE	12/13/2018

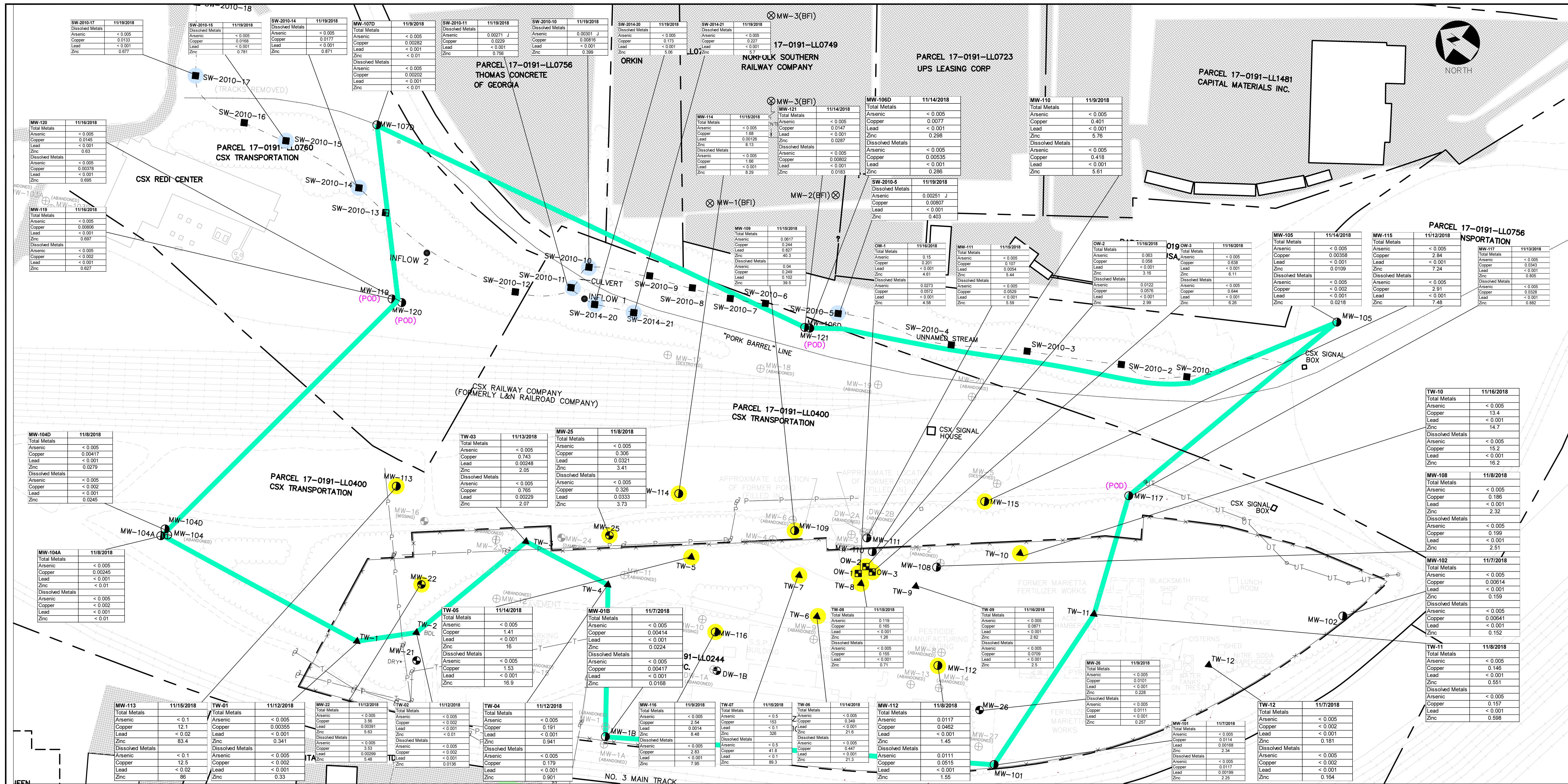
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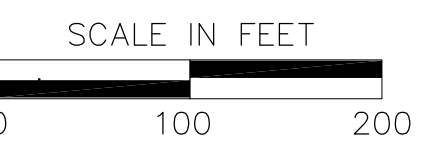
POTENTIOMETRIC SURFACE
NOVEMBER 2018

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



LEGEND:

- MW-104 (1) LAW/MACTEC/AMEC CSR AND VRP MONITORING WELL LOCATIONS (MW-1A, MW-1B, MW-101 TO MW-105, MW-104A, MW-104D, MW-106D, MW-107D, MW-108, MW-109, AND MW-110, MW-111 THROUGH MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007, AND NOVEMBER 2012) (MW-106 AND MW-107 WERE NOT INSTALLED)
- MW-10 (2) T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, MW-7 WAS NOT INSTALLED) (AUGUST 1983, JANUARY 1984, JUNE 1985)
- DW-1B (3) T.M. GATES DEEP MONITORING WELL LOCATIONS (DW-1A, DW-1B, DW-2A, DW-2B) (AUGUST 1983, FEBRUARY 1984)
- MW-1 (4) 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 (5) TEMPORARY WELLS (MAY 2012)
- INFLOW 1 (6) SEEP ALONG STREAM
- SW-2010-1 (7) MACTEC/AMEC SURFACE WATER SAMPLING LOCATIONS (SW-2010-1 TO SW-2010-18, SW-2014-20 AND SW-2014-21)
- MW-1(BFI) (8) APPROXIMATE LOCATION OF MONITORING WELLS INSTALLED FOR 1993 PHASE II INVESTIGATION.
- (POD) (9) POINT OF DEMONSTRATION WELL
- (10) 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) CALCULATED BY EPD ON OCTOBER 12, 2018.
- ARSENIC 0.01 MG/L
LEAD 0.015 MG/L
COPPER 1.3 MG/L
ZINC 6 MG/L
- (11) HORIZONTAL DELINEATION OF GROUND-WATER CONTAMINATION BASED ON TYPE I RRS (OCTOBER 12, 2018).
- (12) PROPERTY BOUNDARIES
- (13) ABOVEGROUND POWER STRUCTURE LINES
- (14) BELOWGROUND FIBER OPTICS CABLE
- (15) FENCE
- (16) EXISTING STRUCTURE
- (17) FORMER STRUCTURE
- (18) TREE LINE
- (19) STREAM
- (20) NA CONSTITUENT NOT ANALYZED
- (21) ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (MG/L)
- (22) GROUNDWATER CONCENTRATION IS GREATER THAN TYPE I RRS CALCULATED BY EPD ON OCTOBER 12, 2018
- (23) SURFACE WATER CONCENTRATION IS GREATER THAN GEORGIA INSTREAM WATER QUALITY CRITERIA FOR AQUATIC RECEPTORS (COPPER OR ZINC)
- (24) OBSERVATION WELL FOR PILOT INJECTION STUDY
- (25) BELOW DETECTION LIMIT
- (26) < NOT DETECTED ABOVE THE ASSOCIATED REPORTING LIMIT
- (27) *DRY INSUFFICIENT WATER TO SAMPLE WELL



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IN CHARGE G. WRENN
DATE 1/22/2019

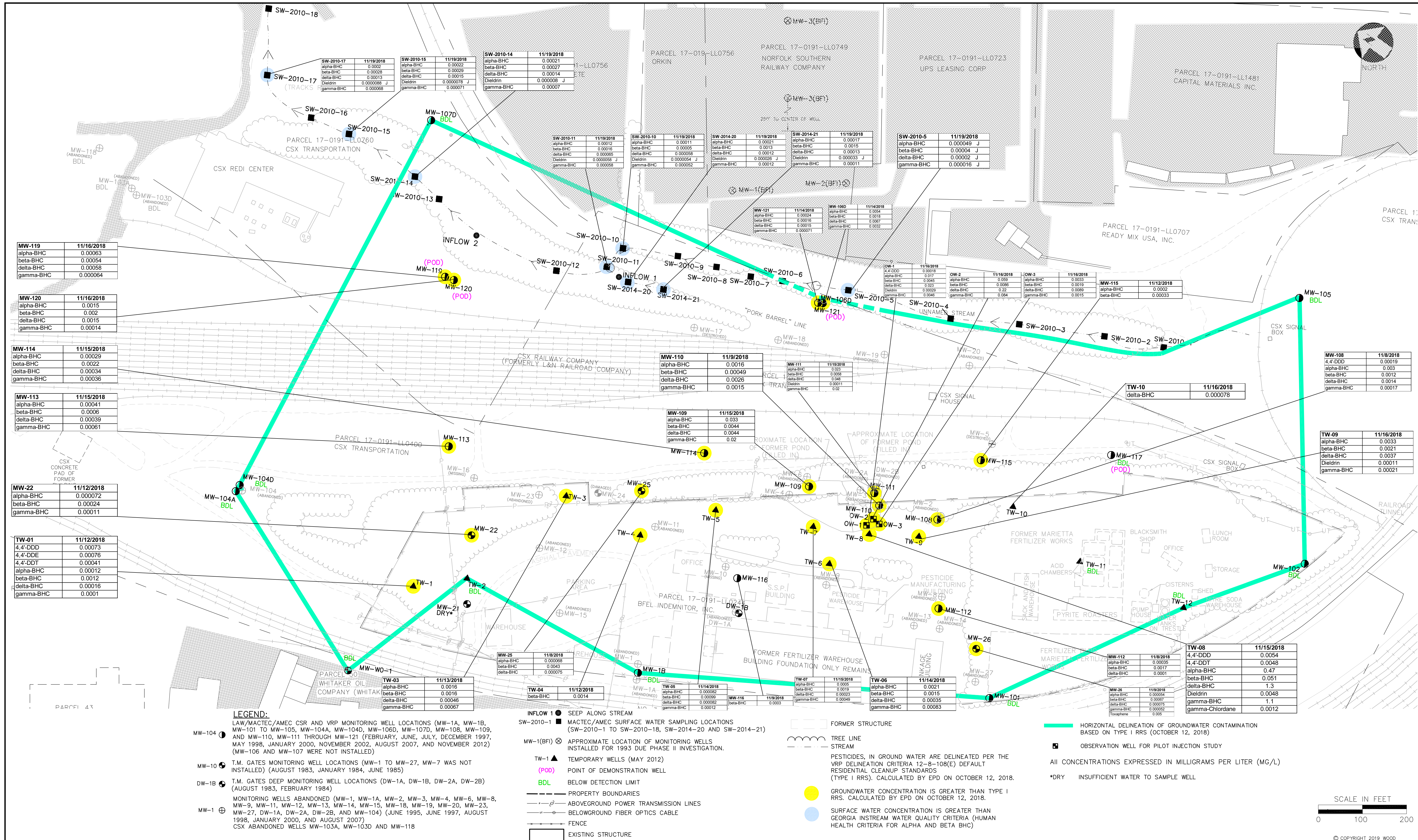
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DISTRIBUTION AND DELINEATION OF ARSENIC, LEAD, COPPER AND ZINC DETECTED IN GROUND WATER	
SCALE AS SHOWN	CONTRACT 6122-08-0154
BWG. NO. 3	REV PAGE NO.

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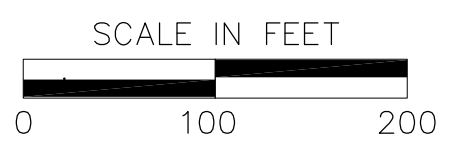
LEGEND:

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

- INFLOW 1 ● SEEP ALONG STREAM
- SW-2010-1 ■ MACTEC/AMEC SURFACE WATER SAMPLING LOCATIONS (SW-2010-1 TO SW-2010-18, SW-2014-20 AND SW-2014-21)
- MW-1(BFI) ⊗ APPROXIMATE LOCATION OF MONITORING WELLS INSTALLED FOR 1993 DUE PHASE II INVESTIGATION.
- TW-1 ▲ TEMPORARY WELLS (MAY 2012)
- (POD) ● POINT OF DEMONSTRATION WELL
- BDL ● BELOW DETECTION LIMIT
- PROPERTY BOUNDARIES
- ABOVEGROUND POWER TRANSMISSION LINES
- BELOWGROUND FIBER OPTICS CABLE
- FENCE
- ▭ EXISTING STRUCTURE

- ▭ FORMER STRUCTURE
- TREE LINE
- STREAM
- PESTICIDES IN GROUND WATER ARE DELINEATED PER THE VRP DELINEATION CRITERIA 12-8-10(E) DEFAULT RESIDENTIAL CLEANUP STANDARDS (TYPE I RRS). CALCULATED BY EPD ON OCTOBER 12, 2018.
- GROUNDWATER CONCENTRATION IS GREATER THAN TYPE I RRS. CALCULATED BY EPD ON OCTOBER 12, 2018.
- SURFACE WATER CONCENTRATION IS GREATER THAN GEORGIA INSTREAM WATER QUALITY CRITERIA (HUMAN HEALTH CRITERIA FOR ALPHA AND BETA BHC)

- HORIZONTAL DELINEATION OF GROUNDWATER CONTAMINATION BASED ON TYPE I RRS (OCTOBER 12, 2018)
- OBSERVATION WELL FOR PILOT INJECTION STUDY
- ALL CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER LITER (MG/L)
- *DRY INSUFFICIENT WATER TO SAMPLE WELL



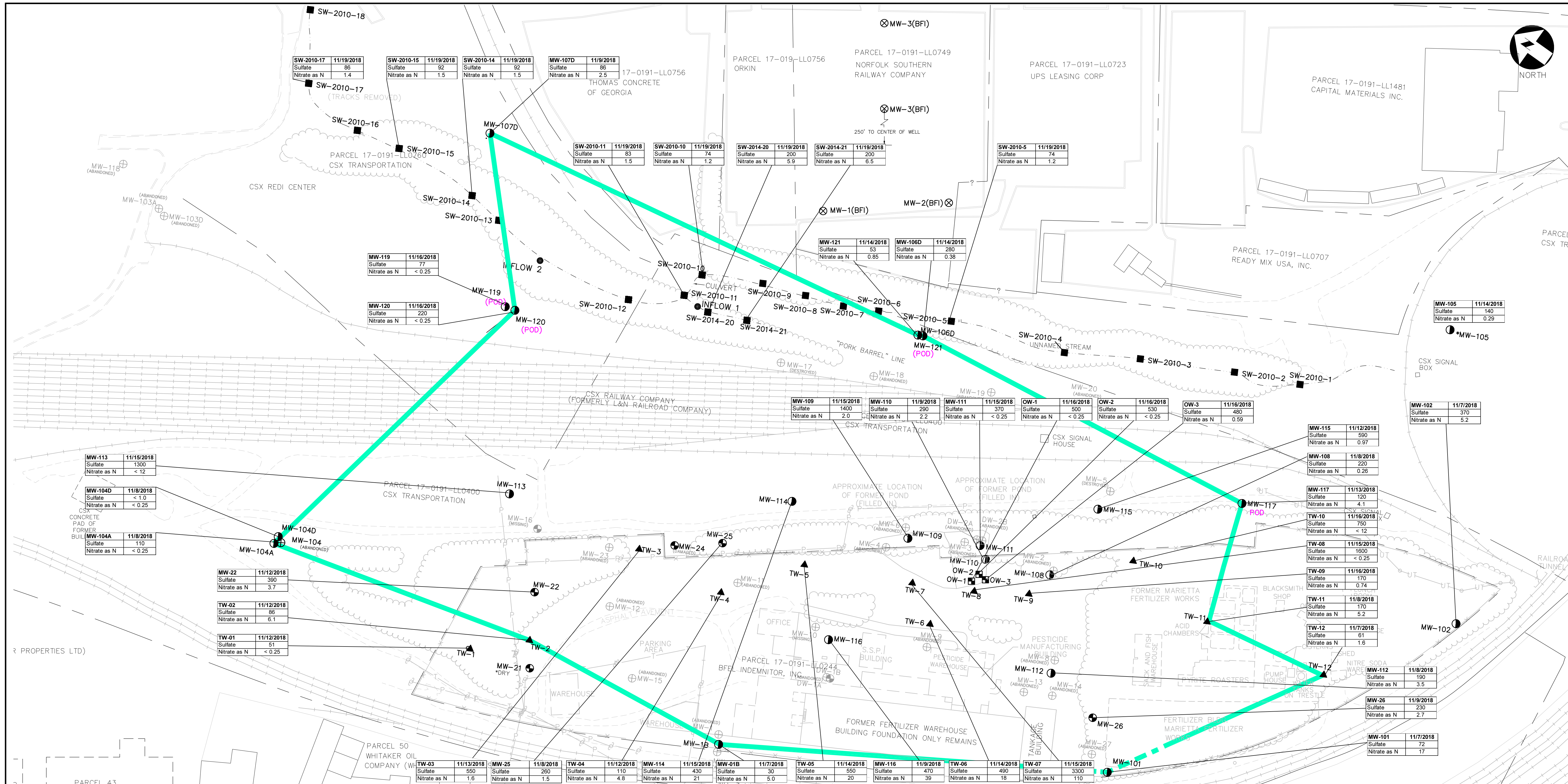
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DISTRIBUTION AND DELINEATION OF PESTICIDES DETECTED IN GROUND WATER	
SCALE	AS SHOWN
CONTRACT	6122-08-0154
DWG. NO.	4
REV PAGE NO.	



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)
- MW-1 ⊖ 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-B-108(E) DEFAULT RESIDENTIAL CLEANUP STANDARDS (TYPE I RRS)
- NITRATE 10 MG/L (NON-REGULATED)
SULFATE 250 MG/L (NON-REGULATED)
- (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)
*DRY INSUFFICIENT WATER TO SAMPLE WELL

TW-03	11/13/2018	MW-25	11/8/2018	TW-04	11/12/2018	MW-114	11/15/2018	MW-01B	11/7/2018	TW-05	11/14/2018	MW-116	11/9/2018	TW-06	11/14/2018	TW-07	11/15/2018
Sulfate	550	Sulfate	260	Sulfate	110	Sulfate	430	Sulfate	30	Sulfate	550	Sulfate	470	Sulfate	490	Sulfate	3300
Nitrate as N	1.6	Nitrate as N	1.5	Nitrate as N	4.8	Nitrate as N	21	Nitrate as N	5.0	Nitrate as N	20	Nitrate as N	39	Nitrate as N	18	Nitrate as N	110

MW-109	11/15/2018	MW-110	11/9/2018	MW-111	11/15/2018	OW-1	11/16/2018	OW-2	11/16/2018	OW-3	11/16/2018
Sulfate	140	Sulfate	290	Sulfate	370	Sulfate	500	Sulfate	530	Sulfate	480
Nitrate as N	2.0	Nitrate as N	2.2	Nitrate as N	< 0.25	Nitrate as N	< 0.25	Nitrate as N	< 0.25	Nitrate as N	0.59

MW-113	11/15/2018
Sulfate	1300
Nitrate as N	< 12

MW-104D	11/8/2018
Sulfate	< 1.0
Nitrate as N	< 0.25

MW-104A	11/8/2018
Sulfate	110
Nitrate as N	< 0.25

MW-22	11/12/2018
Sulfate	390
Nitrate as N	3.7

TW-02	11/12/2018
Sulfate	88
Nitrate as N	6.1

TW-01	11/12/2018
Sulfate	51
Nitrate as N	< 0.25

MW-115	11/12/2018
Sulfate	590
Nitrate as N	0.97

MW-108	11/8/2018
Sulfate	220
Nitrate as N	0.26

MW-117	11/13/2018
Sulfate	120
Nitrate as N	4.1

TW-10	11/16/2018
Sulfate	750
Nitrate as N	< 12

TW-08	11/15/2018
Sulfate	1600
Nitrate as N	< 0.25

TW-09	11/16/2018
Sulfate	170
Nitrate as N	0.74

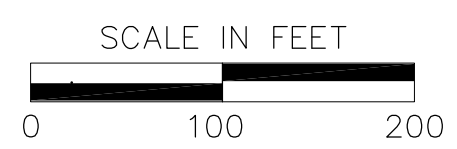
TW-11	11/8/2018
Sulfate	170
Nitrate as N	5.2

TW-12	11/7/2018
Sulfate	61
Nitrate as N	1.6

MW-112	11/8/2018
Sulfate	190
Nitrate as N	3.5

MW-26	11/9/2018
Sulfate	230
Nitrate as N	2.7

MW-101	11/7/2018
Sulfate	72
Nitrate as N	17



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R. QUINN
IN CHARGE
G. WRENN
DATE 1/22/2019

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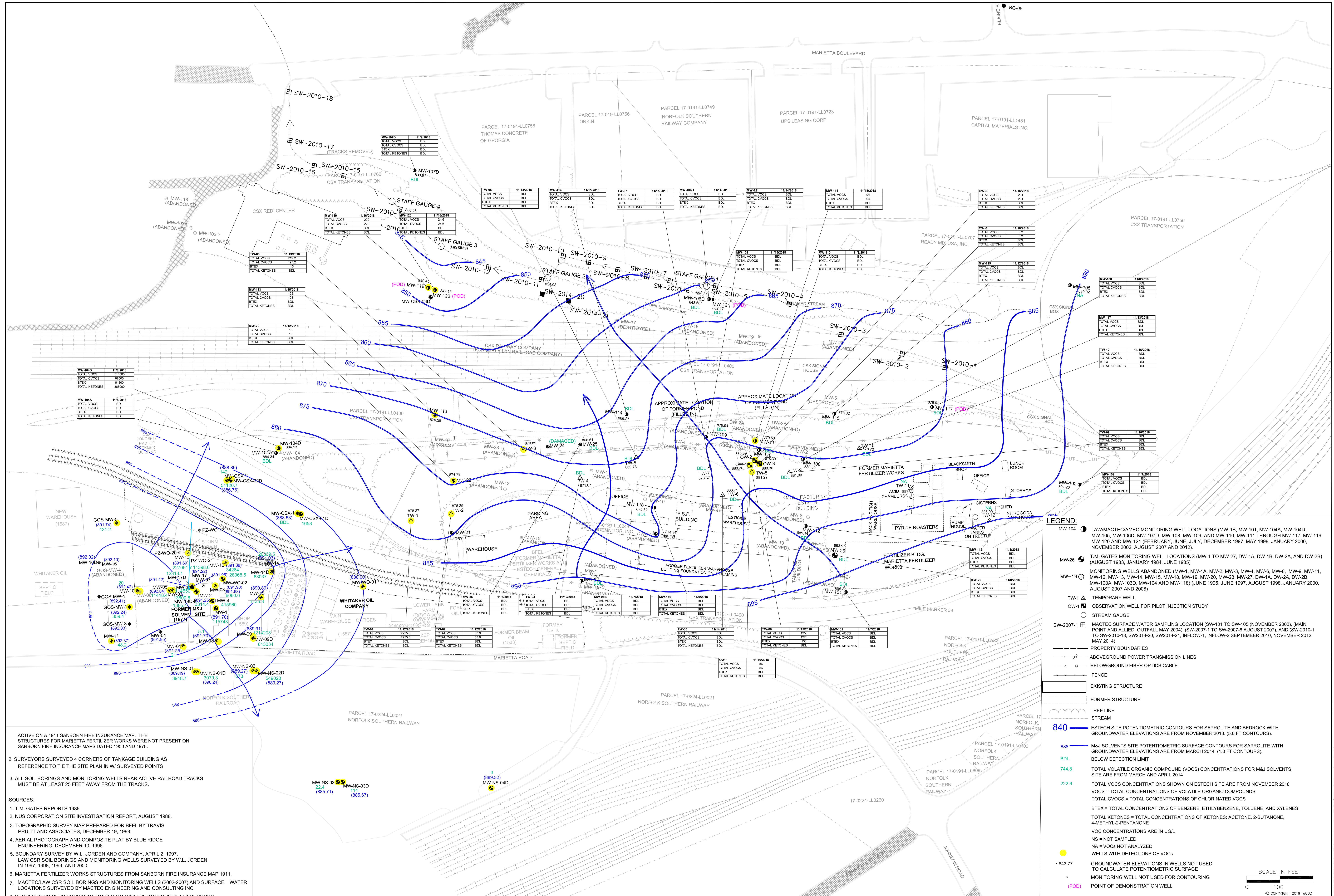
DISTRIBUTION AND DELINEATION OF NITRATE AND SULFATE IN GROUND WATER

SCALE AS SHOWN

CONTRACT 6122-08-0154

DWG. NO. 5

J:\BREL ATLANTA\January 2019\DELINERATION OF NITRATE AND SULFATE.dwg - Layout1 02/05/2019 2:11pm Tonya.Gladstone



ACTIVE ON A 1911 SANBORN FIRE INSURANCE MAP. THE STRUCTURES FOR MARIETTA FERTILIZER WORKS WERE NOT PRESENT ON SANBORN FIRE INSURANCE MAPS DATED 1950 AND 1978.

2. SURVEYORS SURVEYED 4 CORNERS OF TANKAGE BUILDING AS REFERENCE TO TIE THE SITE PLAN IN W/ SURVEYED POINTS

3. ALL SOIL BORINGS AND MONITORING WELLS NEAR ACTIVE RAILROAD TRACKS MUST BE AT LEAST 25 FEET AWAY FROM THE TRACKS.

SOURCES:

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

CADD NOTE: DRAWING XREFS ROTATED @ 0.0; 55° FROM SURVEY FILE COORDINATE POSITION.

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LEGEND:

- MW-104 LAW/MACTEC/AMEC MONITORING WELL LOCATIONS (MW-10, MW-101, MW-104A, MW-104D, MW-105, MW-106D, MW-107D, MW-108, MW-109, MW-110, MW-111 THROUGH MW-117, MW-119 MW-120 AND MW-121 (FEBRUARY, JUNE, JULY, DECEMBER 1997, MAY 1998, JANUARY 2000, NOVEMBER 2002, AUGUST 2007 AND 2012).
- MW-26 T.M. GATES MONITORING WELL LOCATIONS (MW-1 TO MW-27, DW-1A, DW-1B, DW-2A, AND DW-2B) (AUGUST 1985, JANUARY 1984, JUNE 1985)
- MW-19 MONITORING WELLS ABANDONED (MW-1, MW-1A, MW-2, MW-3, MW-4, MW-5, 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, AUGUST 2007 AND 2008)
- TW-1 TEMPORARY WELL
- OW-1 OBSERVATION WELL FOR PILOT INJECTION STUDY
- STREAM GAUGE
- 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-2010-9, SW2014-20, SW2014-21, INFLOW-1, INFLOW-2 SEPTEMBER 2010, NOVEMBER 2012, MAY 2014)
- PROPERTY BOUNDARIES
- ABOVEGROUND POWER TRANSMISSION LINES
- BELOWGROUND FIBER OPTICS CABLE
- FENCE
- EXISTING STRUCTURE
- FORMER STRUCTURE
- TREE LINE
- STREAM
- 840 ESTECH SITE POTENTIOMETRIC CONTOURS FOR SAPROLITE AND BEDROCK WITH GROUNDWATER ELEVATIONS ARE FROM NOVEMBER 2018, (5.0 FT CONTOURS).
- 888 M&J SOLVENTS SITE POTENTIOMETRIC SURFACE CONTOURS FOR SAPROLITE WITH GROUNDWATER ELEVATIONS ARE FROM MARCH 2014 (1.0 FT CONTOURS)
- BDL BELOW DETECTION LIMIT
- 744.8 TOTAL VOLATILE ORGANIC COMPOUND (VOCs) CONCENTRATIONS FOR M&J SOLVENTS SITE ARE FROM MARCH AND APRIL 2014
- 222.6 TOTAL VOCs CONCENTRATIONS SHOWN ON ESTECH SITE ARE FROM NOVEMBER 2018. VOCs = TOTAL CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS
TOTAL CVOCs = TOTAL CONCENTRATIONS OF CHLORINATED VOCs
BTEX = TOTAL CONCENTRATIONS OF BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENES
TOTAL KETONES = TOTAL CONCENTRATIONS OF KETONES: ACETONE, 2-BUTANONE, 4-METHYL-2-PENTANONE
VOC CONCENTRATIONS ARE IN UGL
NS = NOT SAMPLED
NA = VOCs NOT ANALYZED
WELLS WITH DETECTIONS OF VOCs
- 843.77 GROUNDWATER ELEVATIONS IN WELLS NOT USED TO CALCULATE POTENTIOMETRIC SURFACE MONITORING WELL NOT USED FOR CONTOURING
- (POD) POINT OF DEMONSTRATION WELL

SCALE IN FEET
0 100
© COPYRIGHT 2019 WOOD

TOTAL VOLATILE ORGANIC COMPOUND (VOCs) CONCENTRATIONS IN GROUNDWATER WITH POTENTIOMETRIC SURFACE CONTOURS

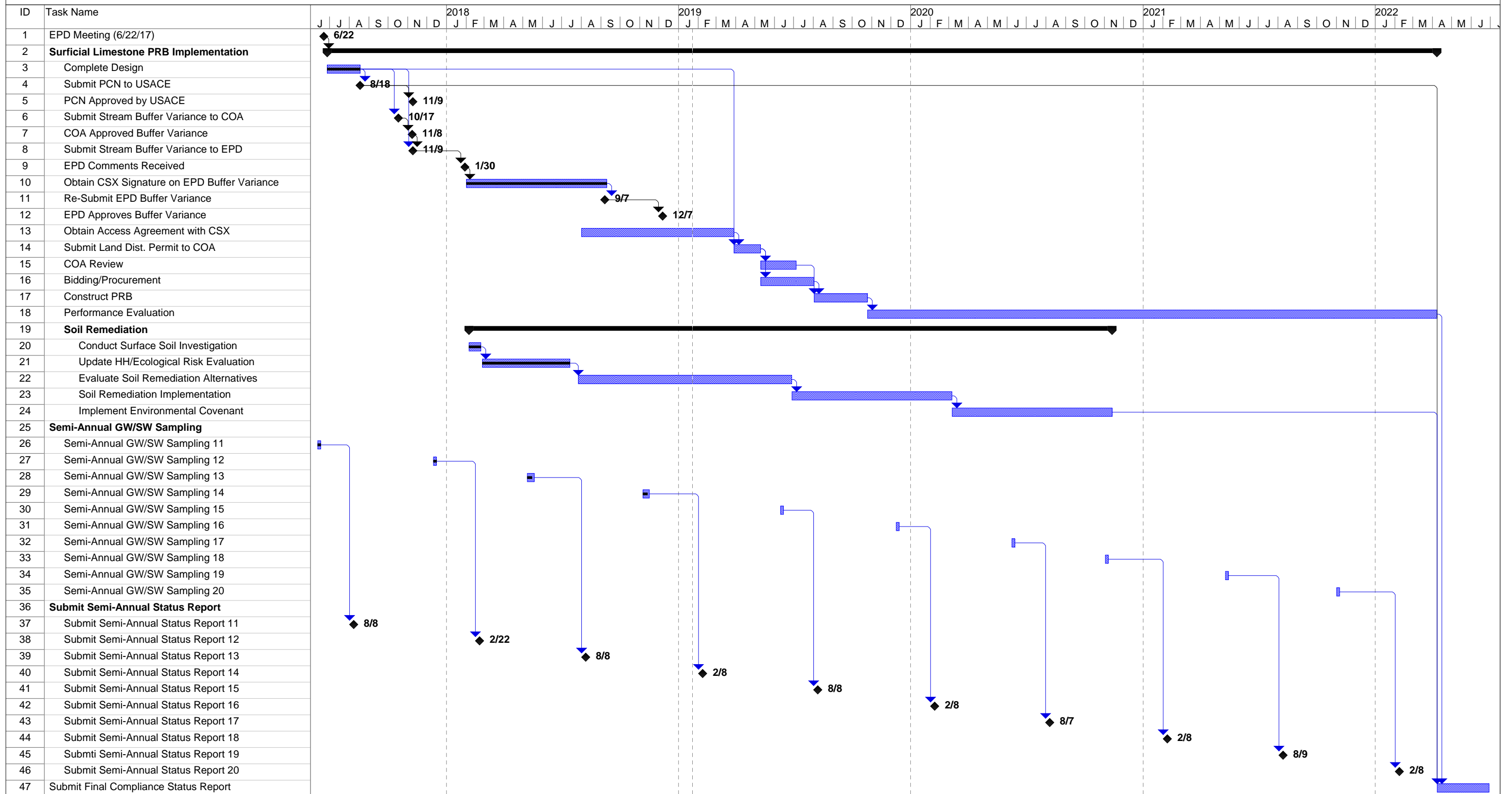
SCALE AS SHOWN

CONTRACT **6122-08-0154**

DRAWING **6** REV PAGE NO

C:\Users\jordan\OneDrive\Documents\2019\ESTECH\TOTAL VOCs WITH POTENTIOMETRIC SURFACE CONTOURS.dwg - 12/22/2019 2:46pm Tmp101.dwt

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



Project: BFEL Atlanta VRP Schedule Date: Wed 1/23/19	Task	Project Summary	Inactive Summary	Manual Summary	External Milestone	Progress
	Split	External Tasks	Manual Task	Start-only	Progress	Deadline
	Milestone	External Milestone	Duration-only	Finish-only	Deadline	Summary
	Summary	Inactive Milestone	Manual Summary Rollup	External Tasks	External Milestone	

APPENDIX A

**LABORATORY REPORTS AND FIELD SAMPLING FORMS FOR
NOVEMBER 2018 GROUNDWATER SAMPLING EVENT**

Voluntary Remediation Program Status Report No. 14
Former Estech General Chemicals Site
HSI Site No. 10196, Parcels 17-0191-LL0244 and 17-0191-LL0400
Wood Project 6122-08-0154

February 8, 2019

WATER LABORATORY REPORTS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 15, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL-Atlanta

Dear Rhonda Quinn:

Order No: 1811671

Analytical Environmental Services, Inc. received 7 samples on 11/7/2018 5:47:00 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers																			
PHONE: 770-421-3400		EMAIL:			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%; text-align:center;">VOC list 8260</td> <td style="width:10%; text-align:center;">Pest 8081A</td> <td style="width:10%; text-align:center;">Nitrate 9056 Sulfate</td> <td style="width:10%; text-align:center;">Total Metals As, Cu, Pb, Zn, 6020</td> <td style="width:10%; text-align:center;">Dissolved Metals As, Cu, Pb, Zn, 6020</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>													VOC list 8260	Pest 8081A	Nitrate 9056 Sulfate	Total Metals As, Cu, Pb, Zn, 6020	Dissolved Metals As, Cu, Pb, Zn, 6020														
VOC list 8260	Pest 8081A	Nitrate 9056 Sulfate	Total Metals As, Cu, Pb, Zn, 6020	Dissolved Metals As, Cu, Pb, Zn, 6020																																
SAMPLED BY: D Howard, E Guillen, B Updyk		SIGNATURE: <i>[Signature]</i>			PRESERVATION (see codes)										REMARKS																					
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H	I	I	N	I																									
1	TB-01	11/7/18	0930	X		W	X														2															
2	DUP-1 EB-1		0945	X		W	X	X	X	X											6															
3	DUP-2 EB-2		1150	X		W	X	X	X	X											6															
4	TW-12		1512	X		W		X	X	X	X										5															
5	MW-1B		1325	X		GW	X	X	X	X	X										7															
6	MW-101		1525	X		GW	X	X	X	X	X										7															
7	MW-102	↓	1225	X		GW	X	X	X	X	X										7															
8	Temp Blank																																			
9																																				
10																																				
11																																				
12																																				
13																																				
14																																				
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION										RECEIPT																		
1. <i>[Signature]</i>		11/7/18 16:45		1. <i>[Signature]</i>		11-7-18 7:45		PROJECT NAME: BFEL Atlanta										Total # of Containers																		
2. <i>[Signature]</i>		11-7-18 5:47		2. <i>[Signature]</i>		11/7/18 17:41		PROJECT #: 6122080154										Turnaround Time (TAT) Request																		
3.				3.				SITE ADDRESS: 1525 Pine St NW Atlanta, GA										<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																		
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: Rhonda Quinn										STATE PROGRAM (if any): _____																		
Lab will filter dissolved metals				OUT: / / VIA:				INVOICE TO (IF DIFFERENT FROM ABOVE):										E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>																		
				IN: / / VIA:				QUOTE #: _____ PO#: _____										DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																		
				client FedEx UPS US mail courier																																

Client: Wood Environment & Infrastructure

Project: BFEL-Atlanta

Lab ID: 1811671

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

RPD value for 1,2,4-Trimethylbenzene, Ethylbenzene, m,p-Xylene, & Xylenes, Total on sample 1811593-018ADUP was outside advisory control limits due to suspected non-homogeneous sample matrix. All percent recoveries were within control limits.

Client: Wood Environment & Infrastructure	Client Sample ID: TB-01
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 9:30:00 AM
Lab ID: 1811671-001	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	270117	1	11/11/2018 00:01	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 00:01	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 00:01	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 00:01	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 00:01	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 00:01	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 00:01	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/12/2018 23:12	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 00:01	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 00:01	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270117	1	11/11/2018 00:01	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270117	1	11/12/2018 23:12	JB
Surr: Dibromofluoromethane	101	84.4-122		%REC	270117	1	11/11/2018 00:01	JE
Surr: Dibromofluoromethane	109	84.4-122		%REC	270117	1	11/12/2018 23:12	JB
Surr: Toluene-d8	100	80.1-116		%REC	270117	1	11/11/2018 00:01	JE

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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-01
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 9:30:00 AM
Lab ID: 1811671-001	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	101	80.1-116		%REC	270117	1	11/12/2018 23:12	JB

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

Client: Wood Environment & Infrastructure	Client Sample ID: EB-1
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 9:45:00 AM
Lab ID: 1811671-002	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	270117	1	11/11/2018 00:25	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 00:25	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 00:25	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 00:25	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 00:25	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 00:25	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 00:25	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/12/2018 23:36	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 00:25	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 00:25	JE
Surr: 4-Bromofluorobenzene	99.6	68-127		%REC	270117	1	11/12/2018 23:36	JB
Surr: 4-Bromofluorobenzene	106	68-127		%REC	270117	1	11/11/2018 00:25	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270117	1	11/12/2018 23:36	JB
Surr: Dibromofluoromethane	108	84.4-122		%REC	270117	1	11/11/2018 00:25	JE
Surr: Toluene-d8	96.3	80.1-116		%REC	270117	1	11/12/2018 23:36	JB

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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: EB-1
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 9:45:00 AM
Lab ID: 1811671-002	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	102	80.1-116		%REC	270117	1	11/11/2018 00:25	JE
Total Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:21	KP
Copper	BRL	0.00200		mg/L	269945	1	11/09/2018 23:21	KP
Lead	BRL	0.00100		mg/L	269945	1	11/09/2018 23:21	KP
Zinc	BRL	0.0100		mg/L	269945	1	11/09/2018 23:21	KP
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R384687	1	11/08/2018 14:42	GO
Sulfate	BRL	1.0		mg/L	R384687	1	11/08/2018 14:42	GO
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)				
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 13:40	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 13:40	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 13:40	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 13:40	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 13:40	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 13:40	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 13:40	UH
Surr: Decachlorobiphenyl	77.9	20.6-134		%REC	269928	1	11/08/2018 13:40	UH
Surr: Tetrachloro-m-xylene	82.9	37-128		%REC	269928	1	11/08/2018 13:40	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: EB-2
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 11:50:00 AM
Lab ID: 1811671-003	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	270117	1	11/11/2018 00:50	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 00:50	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 00:50	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 00:50	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 00:50	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 00:50	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 00:50	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/13/2018 00:01	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 00:50	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 00:50	JE
Surr: 4-Bromofluorobenzene	96.9	68-127		%REC	270117	1	11/13/2018 00:01	JB
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270117	1	11/11/2018 00:50	JE
Surr: Dibromofluoromethane	101	84.4-122		%REC	270117	1	11/11/2018 00:50	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270117	1	11/13/2018 00:01	JB
Surr: Toluene-d8	97.2	80.1-116		%REC	270117	1	11/13/2018 00:01	JB

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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: EB-2
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 11:50:00 AM
Lab ID: 1811671-003	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	100	80.1-116		%REC	270117	1	11/11/2018 00:50	JE
Total Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:24	KP
Copper	BRL	0.00200		mg/L	269945	1	11/09/2018 23:24	KP
Lead	BRL	0.00100		mg/L	269945	1	11/09/2018 23:24	KP
Zinc	BRL	0.0100		mg/L	269945	1	11/09/2018 23:24	KP
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R384687	1	11/08/2018 14:57	GO
Sulfate	BRL	1.0		mg/L	R384687	1	11/08/2018 14:57	GO
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)				
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 13:51	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 13:51	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 13:51	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 13:51	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 13:51	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 13:51	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 13:51	UH
Surr: Decachlorobiphenyl	72.2	20.6-134		%REC	269928	1	11/08/2018 13:51	UH
Surr: Tetrachloro-m-xylene	79.2	37-128		%REC	269928	1	11/08/2018 13:51	UH

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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-12
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 3:12:00 PM
Lab ID: 1811671-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:28	KP
Copper	BRL	0.00200		mg/L	269945	1	11/09/2018 23:28	KP
Lead	BRL	0.00100		mg/L	269945	1	11/09/2018 23:28	KP
Zinc	0.181	0.0100		mg/L	269945	1	11/09/2018 23:28	KP
ION SCAN SW9056A								
Nitrate	1.6	0.25		mg/L	R384687	1	11/08/2018 15:13	GO
Sulfate	61	1.0		mg/L	R384687	1	11/08/2018 15:13	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:25	JW
Copper	BRL	0.00200		mg/L	270082	1	11/13/2018 13:25	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:25	JW
Zinc	0.164	0.0100		mg/L	270082	1	11/13/2018 13:25	JW
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 14:47	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 14:47	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 14:47	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 14:47	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 14:47	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 14:47	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 14:47	UH
Surr: Decachlorobiphenyl	56.7	20.6-134		%REC	269928	1	11/08/2018 14:47	UH
Surr: Tetrachloro-m-xylene	68	37-128		%REC	269928	1	11/08/2018 14:47	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-1B
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 1:25:00 PM
Lab ID: 1811671-005	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	270117	1	11/11/2018 01:15	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 01:15	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 01:15	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 01:15	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 01:15	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 01:15	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 01:15	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/13/2018 00:26	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 01:15	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 01:15	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270117	1	11/13/2018 00:26	JB
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270117	1	11/11/2018 01:15	JE
Surr: Dibromofluoromethane	99.8	84.4-122		%REC	270117	1	11/11/2018 01:15	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270117	1	11/13/2018 00:26	JB
Surr: Toluene-d8	99.9	80.1-116		%REC	270117	1	11/13/2018 00:26	JB

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-1B
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 1:25:00 PM
Lab ID: 1811671-005	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	101	80.1-116		%REC	270117	1	11/11/2018 01:15	JE
Total Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:31	KP
Copper	0.00414	0.00200		mg/L	269945	1	11/09/2018 23:31	KP
Lead	BRL	0.00100		mg/L	269945	1	11/09/2018 23:31	KP
Zinc	0.0224	0.0100		mg/L	269945	1	11/09/2018 23:31	KP
ION SCAN SW9056A								
Nitrate	5.0	0.25		mg/L	R384687	1	11/08/2018 15:28	GO
Sulfate	30	1.0		mg/L	R384687	1	11/08/2018 15:28	GO
Dissolved Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:09	JW
Copper	0.00417	0.00200		mg/L	270082	1	11/13/2018 13:09	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:09	JW
Zinc	0.0168	0.0100		mg/L	270082	1	11/13/2018 13:09	JW
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)				
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 14:58	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 14:58	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 14:58	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 14:58	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 14:58	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 14:58	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 14:58	UH
Surr: Decachlorobiphenyl	76.8	20.6-134		%REC	269928	1	11/08/2018 14:58	UH
Surr: Tetrachloro-m-xylene	68.9	37-128		%REC	269928	1	11/08/2018 14:58	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-101
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 3:25:00 PM
Lab ID: 1811671-006	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	270117	1	11/11/2018 01:40	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 01:40	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 01:40	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 01:40	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 01:40	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 01:40	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 01:40	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/13/2018 00:50	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 01:40	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 01:40	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270117	1	11/13/2018 00:50	JB
Surr: 4-Bromofluorobenzene	104	68-127		%REC	270117	1	11/11/2018 01:40	JE
Surr: Dibromofluoromethane	101	84.4-122		%REC	270117	1	11/11/2018 01:40	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270117	1	11/13/2018 00:50	JB
Surr: Toluene-d8	93.4	80.1-116		%REC	270117	1	11/13/2018 00:50	JB

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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-101
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 3:25:00 PM
Lab ID: 1811671-006	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	99.7	80.1-116		%REC	270117	1	11/11/2018 01:40	JE
Total Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:34	KP
Copper	0.0114	0.00200		mg/L	269945	1	11/09/2018 23:34	KP
Lead	0.00168	0.00100		mg/L	269945	1	11/09/2018 23:34	KP
Zinc	2.34	0.0100		mg/L	269945	1	11/09/2018 23:34	KP
ION SCAN SW9056A								
Nitrate	17	5.0		mg/L	R384387	20	11/07/2018 22:17	GO
Sulfate	72	20		mg/L	R384387	20	11/07/2018 22:17	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:28	JW
Copper	0.0117	0.00200		mg/L	270082	1	11/13/2018 13:28	JW
Lead	0.00199	0.00100		mg/L	270082	1	11/13/2018 13:28	JW
Zinc	2.25	0.0100		mg/L	270082	1	11/13/2018 13:28	JW
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 15:09	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 15:09	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 15:09	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 15:09	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 15:09	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 15:09	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 15:09	UH
Surr: Decachlorobiphenyl	83.4	20.6-134		%REC	269928	1	11/08/2018 15:09	UH
Surr: Tetrachloro-m-xylene	82	37-128		%REC	269928	1	11/08/2018 15:09	UH

Qualifiers:

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- 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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-102
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 12:25:00 PM
Lab ID: 1811671-007	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	270117	1	11/11/2018 02:05	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
1,4-Dioxane	BRL	0.15		mg/L	270117	1	11/11/2018 02:05	JE
2-Butanone	BRL	0.050		mg/L	270117	1	11/11/2018 02:05	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270117	1	11/11/2018 02:05	JE
Acetone	BRL	0.050		mg/L	270117	1	11/11/2018 02:05	JE
Benzene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Carbon disulfide	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Chlorobenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Chloroethane	BRL	0.010		mg/L	270117	1	11/11/2018 02:05	JE
Chloroform	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Chloromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Cyclohexane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Ethylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270117	1	11/11/2018 02:05	JE
Isopropylbenzene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Methylene chloride	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Naphthalene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Styrene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Tetrachloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Tetrahydrofuran	BRL	0.010		mg/L	270117	1	11/13/2018 01:14	JB
Toluene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Trichloroethene	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Vinyl chloride	BRL	0.0020		mg/L	270117	1	11/11/2018 02:05	JE
Xylenes, Total	BRL	0.0050		mg/L	270117	1	11/11/2018 02:05	JE
Surr: 4-Bromofluorobenzene	98.3	68-127		%REC	270117	1	11/13/2018 01:14	JB
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270117	1	11/11/2018 02:05	JE
Surr: Dibromofluoromethane	101	84.4-122		%REC	270117	1	11/11/2018 02:05	JE
Surr: Dibromofluoromethane	109	84.4-122		%REC	270117	1	11/13/2018 01:14	JB
Surr: Toluene-d8	99.6	80.1-116		%REC	270117	1	11/13/2018 01:14	JB

Qualifiers:

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- 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: 15-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-102
Project Name: BFEL-Atlanta	Collection Date: 11/7/2018 12:25:00 PM
Lab ID: 1811671-007	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	99.7	80.1-116		%REC	270117	1	11/11/2018 02:05	JE
Total Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	269945	1	11/09/2018 23:37	KP
Copper	0.00614	0.00200		mg/L	269945	1	11/09/2018 23:37	KP
Lead	BRL	0.00100		mg/L	269945	1	11/09/2018 23:37	KP
Zinc	0.159	0.0100		mg/L	269945	1	11/09/2018 23:37	KP
ION SCAN SW9056A								
Nitrate	5.2	0.25		mg/L	R384687	1	11/08/2018 15:43	GO
Sulfate	370	20		mg/L	R384387	20	11/07/2018 22:32	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:31	JW
Copper	0.00641	0.00200		mg/L	270082	1	11/13/2018 13:31	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:31	JW
Zinc	0.152	0.0100		mg/L	270082	1	11/13/2018 13:31	JW
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
4,4'-DDD	BRL	0.00010		mg/L	269928	1	11/08/2018 15:20	UH
4,4'-DDE	BRL	0.00010		mg/L	269928	1	11/08/2018 15:20	UH
4,4'-DDT	BRL	0.00010		mg/L	269928	1	11/08/2018 15:20	UH
alpha-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
alpha-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
beta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
delta-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
Dieldrin	BRL	0.00010		mg/L	269928	1	11/08/2018 15:20	UH
gamma-BHC	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
gamma-Chlordane	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
Heptachlor	BRL	0.000050		mg/L	269928	1	11/08/2018 15:20	UH
Methoxychlor	BRL	0.00050		mg/L	269928	1	11/08/2018 15:20	UH
Toxaphene	BRL	0.0030		mg/L	269928	1	11/08/2018 15:20	UH
Surr: Decachlorobiphenyl	83.7	20.6-134		%REC	269928	1	11/08/2018 15:20	UH
Surr: Tetrachloro-m-xylene	81.3	37-128		%REC	269928	1	11/08/2018 15:20	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-12				Lab ID: 1811671-004			
Collection Date: 11/7/2018 3:12:00 PM				Matrix: Aqueous			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.181		0.00168	0.0100	mg/L	269945	1
ION SCAN SW9056A							
Nitrate	1.6		0.055	0.25	mg/L	R384687	1
Sulfate	61		0.12	1.0	mg/L	R384687	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.164		0.00168	0.0100	mg/L	270082	1
Client Sample ID: MW-1B				Lab ID: 1811671-005			
Collection Date: 11/7/2018 1:25:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00414		0.00186	0.00200	mg/L	269945	1
Zinc	0.0224		0.00168	0.0100	mg/L	269945	1
ION SCAN SW9056A							
Nitrate	5.0		0.055	0.25	mg/L	R384687	1
Sulfate	30		0.12	1.0	mg/L	R384687	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00417		0.00186	0.00200	mg/L	270082	1
Zinc	0.0168		0.00168	0.0100	mg/L	270082	1
Client Sample ID: MW-101				Lab ID: 1811671-006			
Collection Date: 11/7/2018 3:25:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0114		0.00186	0.00200	mg/L	269945	1
Lead	0.00168		0.000621	0.00100	mg/L	269945	1
Zinc	2.34		0.00168	0.0100	mg/L	269945	1
ION SCAN SW9056A							
Nitrate	17		1.1	5.0	mg/L	R384387	20
Sulfate	72		2.3	20	mg/L	R384387	20
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0117		0.00186	0.00200	mg/L	270082	1
Lead	0.00199		0.000621	0.00100	mg/L	270082	1
Zinc	2.25		0.00168	0.0100	mg/L	270082	1
Client Sample ID: MW-102				Lab ID: 1811671-007			
Collection Date: 11/7/2018 12:25:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00614		0.00186	0.00200	mg/L	269945	1
Zinc	0.159		0.00168	0.0100	mg/L	269945	1
ION SCAN SW9056A							
Nitrate	5.2		0.055	0.25	mg/L	R384687	1
Sulfate	370		2.3	20	mg/L	R384387	20
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00641		0.00186	0.00200	mg/L	270082	1
Zinc	0.152		0.00168	0.0100	mg/L	270082	1

SUMMARY OF ANALYTES DETECTED

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Lab Order: 1811671

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811671-001A	TB-01	11/7/2018 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018
1811671-001A	TB-01	11/7/2018 9:30:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/12/2018
1811671-002A	EB-1	11/7/2018 9:45:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018
1811671-002A	EB-1	11/7/2018 9:45:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/12/2018
1811671-002B	EB-1	11/7/2018 9:45:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-002C	EB-1	11/7/2018 9:45:00AM	Aqueous	ION SCAN			11/08/2018
1811671-002D	EB-1	11/7/2018 9:45:00AM	Aqueous	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-003A	EB-2	11/7/2018 11:50:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018
1811671-003A	EB-2	11/7/2018 11:50:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/13/2018
1811671-003B	EB-2	11/7/2018 11:50:00AM	Aqueous	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-003C	EB-2	11/7/2018 11:50:00AM	Aqueous	ION SCAN			11/08/2018
1811671-003D	EB-2	11/7/2018 11:50:00AM	Aqueous	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-004A	TW-12	11/7/2018 3:12:00PM	Aqueous	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-004B	TW-12	11/7/2018 3:12:00PM	Aqueous	ION SCAN			11/08/2018
1811671-004C	TW-12	11/7/2018 3:12:00PM	Aqueous	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-004D	TW-12	11/7/2018 3:12:00PM	Aqueous	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811671-005A	MW-1B	11/7/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018
1811671-005A	MW-1B	11/7/2018 1:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/13/2018
1811671-005B	MW-1B	11/7/2018 1:25:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-005C	MW-1B	11/7/2018 1:25:00PM	Groundwater	ION SCAN			11/08/2018
1811671-005D	MW-1B	11/7/2018 1:25:00PM	Groundwater	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-005E	MW-1B	11/7/2018 1:25:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811671-006A	MW-101	11/7/2018 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018
1811671-006A	MW-101	11/7/2018 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/13/2018
1811671-006B	MW-101	11/7/2018 3:25:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-006C	MW-101	11/7/2018 3:25:00PM	Groundwater	ION SCAN			11/07/2018
1811671-006D	MW-101	11/7/2018 3:25:00PM	Groundwater	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-006E	MW-101	11/7/2018 3:25:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811671-007A	MW-102	11/7/2018 12:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/11/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Lab Order: 1811671

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811671-007A	MW-102	11/7/2018 12:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/10/2018 11:26:00AM	11/13/2018
1811671-007B	MW-102	11/7/2018 12:25:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/8/2018 10:00:00AM	11/08/2018
1811671-007C	MW-102	11/7/2018 12:25:00PM	Groundwater	ION SCAN			11/07/2018
1811671-007C	MW-102	11/7/2018 12:25:00PM	Groundwater	ION SCAN			11/08/2018
1811671-007D	MW-102	11/7/2018 12:25:00PM	Groundwater	Total Metals by ICP/MS		11/8/2018 12:30:00PM	11/09/2018
1811671-007E	MW-102	11/7/2018 12:25:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 269928

Sample ID: MB-269928	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/07/2018	Seq No: 8578432							
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	0.000379	0	0.0005		75.8	20.6	134				
Surr: Tetrachloro-m-xylene	0.000387	0	0.0005		77.4	37	128				

Sample ID: MB-269928	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/08/2018	Seq No: 8578447							
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									

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 269928

Sample ID: MB-269928	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/08/2018	Seq No: 8578447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Diieldrin	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	0.000360	0	0.0005		72.0	20.6	134				
Surr: Tetrachloro-m-xylene	0.000377	0	0.0005		75.5	37	128				

Sample ID: MB-269928	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/08/2018	Seq No: 8578826							
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									
Diieldrin	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	0.000351	0	0.0005		70.2	20.6	134				
Surr: Tetrachloro-m-xylene	0.000384	0	0.0005		76.9	37	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 269928

Sample ID: LCS-269928	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/07/2018	Seq No: 8578433							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001020	0.00010	0.0010		102	61	127				
Dieldrin	0.000981	0.00010	0.0010		98.1	66.8	130				
gamma-BHC	0.001008	0.000050	0.0010		101	70.2	129				
Heptachlor	0.000940	0.000050	0.0010		94.0	65.1	131				
Surr: Decachlorobiphenyl	0.000364	0	0.0005		72.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.000404	0	0.0005		80.7	37	128				

Sample ID: 1811434-006BMS	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/07/2018	Seq No: 8578435							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001040	0.00010	0.0010		104	42.4	138				
Dieldrin	0.001003	0.00010	0.0010		100	44.9	138				
gamma-BHC	0.001028	0.000050	0.0010		103	56.5	137				
Heptachlor	0.000987	0.000050	0.0010		98.7	43.6	134				
Surr: Decachlorobiphenyl	0.000474	0	0.0005		94.7	20.6	134				
Surr: Tetrachloro-m-xylene	0.000531	0	0.0005		106	37	128				

Sample ID: 1811434-006BMSD	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384265							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 269928	Analysis Date: 11/07/2018	Seq No: 8578436							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001037	0.00010	0.0010		104	42.4	138	0.001040	0.305	20	
Dieldrin	0.000992	0.00010	0.0010		99.2	44.9	138	0.001003	1.13	20	
gamma-BHC	0.001012	0.000050	0.0010		101	56.5	137	0.001028	1.51	20	
Heptachlor	0.000954	0.000050	0.0010		95.5	43.6	134	0.0009870	3.34	21.3	
Surr: Decachlorobiphenyl	0.000465	0	0.0005		93.1	20.6	134	0.0004735	0	0	
Surr: Tetrachloro-m-xylene	0.000460	0	0.0005		91.9	37	128	0.0005310	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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 269945

Sample ID: MB-269945	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384467							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 269945	Analysis Date: 11/09/2018	Seq No: 8583866							
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-269945	Client ID:	Units: mg/L	Prep Date: 11/08/2018	Run No: 384467							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 269945	Analysis Date: 11/09/2018	Seq No: 8583868							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1090	0.00500	0.1000		109	80	120				
Copper	0.1066	0.00200	0.1000		107	80	120				
Lead	0.09251	0.00100	0.1000		92.5	80	120				
Zinc	0.1104	0.0100	0.1000	0.005474	105	80	120				

Sample ID: 1811525-003CMS	Client ID: MW-3	Units: mg/L	Prep Date: 11/08/2018	Run No: 384467							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 269945	Analysis Date: 11/09/2018	Seq No: 8583876							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1070	0.00500	0.1000		107	75	125				
Copper	0.1093	0.00200	0.1000	0.001980	107	75	125				
Lead	0.09469	0.00100	0.1000		94.7	75	125				
Zinc	0.1296	0.0100	0.1000	0.009000	121	75	125				

Sample ID: 1811525-003CMSD	Client ID: MW-3	Units: mg/L	Prep Date: 11/08/2018	Run No: 384467							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 269945	Analysis Date: 11/09/2018	Seq No: 8583879							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1084	0.00500	0.1000		108	75	125	0.1070	1.33	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 269945

Sample ID: 1811525-003CMSD	Client ID: MW-3	Units: mg/L	Prep Date: 11/08/2018	Run No: 384467							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 269945	Analysis Date: 11/09/2018	Seq No: 8583879							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1070	0.00200	0.1000	0.001980	105	75	125	0.1093	2.16	20	
Lead	0.09345	0.00100	0.1000		93.5	75	125	0.09469	1.31	20	
Zinc	0.1166	0.0100	0.1000	0.009000	108	75	125	0.1296	10.5	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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270082

Sample ID: MB-270082	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587311							
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-270082	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587324							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1030	0.00500	0.1000		103	80	120				
Copper	0.1065	0.00200	0.1000		107	80	120				
Lead	0.1049	0.00100	0.1000		105	80	120				
Zinc	0.1047	0.0100	0.1000		105	80	120				

Sample ID: 1811671-005EMS	Client ID: MW-1B	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587325							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1019	0.00500	0.1000		102	75	125				
Copper	0.1027	0.00200	0.1000	0.004167	98.5	75	125				
Lead	0.09716	0.00100	0.1000		97.2	75	125				
Zinc	0.1121	0.0100	0.1000	0.01684	95.2	75	125				

Sample ID: 1811671-005EMSD	Client ID: MW-1B	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587328							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1003	0.00500	0.1000		100	75	125	0.1019	1.61	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270082

Sample ID: 1811671-005EMSD	Client ID: MW-1B	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587328							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1020	0.00200	0.1000	0.004167	97.8	75	125	0.1027	0.716	20	
Lead	0.09658	0.00100	0.1000		96.6	75	125	0.09716	0.600	20	
Zinc	0.1128	0.0100	0.1000	0.01684	95.9	75	125	0.1121	0.620	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270117

Sample ID: MB-270117	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585138							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270117

Sample ID: MB-270117	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585138							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05257	0	0.0500		105	68	127				
Surr: Dibromofluoromethane	0.05219	0	0.0500		104	84.4	122				
Surr: Toluene-d8	0.04926	0	0.0500		98.5	80.1	116				

Sample ID: MB-270117	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384488							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585226							
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									
Surr: 4-Bromofluorobenzene	0.05169	0	0.0500		103	68	127				
Surr: Dibromofluoromethane	0.05002	0	0.0500		100	84.4	122				
Surr: Toluene-d8	0.04910	0	0.0500		98.2	80.1	116				

Sample ID: LCS-270117	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.05957	0.0050	0.0500		119	69	136				
Benzene	0.05368	0.0050	0.0500		107	73.7	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270117

Sample ID: LCS-270117	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585134							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	0.05019	0.0050	0.0500		100	73.5	124				
Toluene	0.05001	0.0050	0.0500		100	76.8	125				
Trichloroethene	0.05264	0.0050	0.0500		105	70.9	124				
Surr: 4-Bromofluorobenzene	0.05153	0	0.0500		103	68	127				
Surr: Dibromofluoromethane	0.05279	0	0.0500		106	84.4	122				
Surr: Toluene-d8	0.04847	0	0.0500		96.9	80.1	116				

Sample ID: 1811593-018AMS	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585143							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	29.64	2.5	25.00		119	65.7	143				
Benzene	27.94	2.5	25.00	0.9000	108	66.1	137				
Chlorobenzene	26.11	2.5	25.00		104	70.9	132				
Toluene	47.08	2.5	25.00	14.88	129	63.8	141				
Trichloroethene	26.91	2.5	25.00		108	70.6	128				
Surr: 4-Bromofluorobenzene	26.00	0	25.00		104	68	127				
Surr: Dibromofluoromethane	24.90	0	25.00		99.6	84.4	122				
Surr: Toluene-d8	25.46	0	25.00		102	80.1	116				

Sample ID: 1811593-018ADUP	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585146							
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	2.5						0	0	30	
1,1,2,2-Tetrachloroethane	BRL	2.5						0	0	30	
1,1,2-Trichloroethane	BRL	2.5						0	0	30	
1,1-Dichloroethane	BRL	2.5						0	0	30	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270117

Sample ID: 1811593-018ADUP	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585146							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	BRL	2.5						0	0	30	
1,1-Dichloropropene	BRL	2.5						0	0	30	
1,2,4-Trichlorobenzene	BRL	2.5						0	0	30	
1,2-Dichloroethane	BRL	2.5						0	0	30	
1,2-Dichloropropane	BRL	2.5						0	0	30	
1,4-Dioxane	BRL	75						0	0	30	
2-Butanone	BRL	25						0	0	30	
4-Methyl-2-pentanone	BRL	5.0						0	0	30	
Acetone	BRL	25						0	0	30	
Benzene	BRL	2.5						0.9000	0	30	
Carbon disulfide	BRL	2.5						0	0	30	
Carbon tetrachloride	BRL	2.5						0	0	30	
Chlorobenzene	BRL	2.5						0	0	30	
Chloroethane	BRL	5.0						0	0	30	
Chloroform	BRL	2.5						0	0	30	
Chloromethane	BRL	5.0						0	0	30	
cis-1,2-Dichloroethene	BRL	2.5						0	0	30	
Cyclohexane	BRL	2.5						0	0	30	
Ethylbenzene	6.620	2.5						4.810	31.7	30	R
Isobutyl Alcohol	BRL	100						0	0	30	
Isopropylbenzene	BRL	2.5						0	0	30	
Methylene chloride	BRL	2.5						0	0	30	
Naphthalene	BRL	2.5						0	0	30	
Styrene	BRL	2.5						0	0	30	
Tetrachloroethene	BRL	2.5						0	0	30	
Tetrahydrofuran	BRL	5.0						0	0	30	
Toluene	16.19	2.5						14.88	8.40	30	

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: 270117

Sample ID: 1811593-018ADUP	Client ID:	Units: mg/L	Prep Date: 11/10/2018	Run No: 384480							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270117	Analysis Date: 11/10/2018	Seq No: 8585146							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

trans-1,2-Dichloroethene	BRL	2.5						0	0	30	
Trichloroethene	BRL	2.5						0	0	30	
Trichlorofluoromethane	BRL	2.5						0	0	30	
Vinyl chloride	BRL	1.0						0	0	30	
Xylenes, Total	35.60	2.5						25.38	33.5	30	R
Surr: 4-Bromofluorobenzene	25.68	0	25.00		103	68	127	25.96	0	0	
Surr: Dibromofluoromethane	24.98	0	25.00		99.9	84.4	122	25.12	0	0	
Surr: Toluene-d8	25.26	0	25.00		101	80.1	116	24.92	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: R384387

Sample ID: MB-R384387	Client ID:	Units: mg/L	Prep Date:	Run No: 384387							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582062							
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-R384387	Client ID:	Units: mg/L	Prep Date:	Run No: 384387							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582061							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.132 0.25 5.000 103 90 110
 Sulfate 25.49 1.0 25.00 102 90 110

Sample ID: 1811525-003BMS	Client ID: MW-3	Units: mg/L	Prep Date:	Run No: 384387							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582065							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 259.6 12 250.0 104 90 110
 Sulfate 1248 50 1250 7.629 99.2 90 110

Sample ID: 1811609-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384387							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582072							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 57.08 2.5 50.00 4.351 105 90 110
 Sulfate 275.1 10 250.0 32.87 96.9 90 110

Sample ID: 1811525-003BMSD	Client ID: MW-3	Units: mg/L	Prep Date:	Run No: 384387							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582066							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 265.7 12 250.0 106 90 110 259.6 2.32 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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: R384387

Sample ID: 1811525-003BMSD	Client ID: MW-3	Units: mg/L	Prep Date:	Run No: 384387
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384387	Analysis Date: 11/07/2018	Seq No: 8582066

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	1254	50	1250	7.629	99.7	90	110	1248	0.504	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: R384687

Sample ID: MB-R384687	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589587							
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-R384687	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.222 0.25 5.000 104 90 110
 Sulfate 24.72 1.0 25.00 98.9 90 110

Sample ID: 1811752-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.392 0.25 5.000 1.347 121 90 110 S
 Sulfate 26.17 1.0 25.00 1.465 98.8 90 110

Sample ID: 1811752-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.850 0.25 5.000 1.343 130 90 110 S
 Sulfate 26.21 1.0 25.00 1.596 98.5 90 110

Sample ID: 1811752-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.418 0.25 5.000 1.347 121 90 110 7.392 0.348 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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811671

ANALYTICAL QC SUMMARY REPORT

BatchID: R384687

Sample ID: 1811752-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384687
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589612

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	26.18	1.0	25.00	1.465	98.8	90	110	26.17	0.038	20	

Qualifiers:

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 20, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL- Atlanta

Dear Rhonda Quinn:

Order No: 1811A80

Analytical Environmental Services, Inc. received 6 samples on 11/12/2018 5:50:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers		
PHONE: 770-421-3400		EMAIL:			VAC list 8160 Pest 8081A Nitrate 9056 Tot metals 6020 Diss metals 6020 As, Cu, Pb, Zn PRESERVATION (see codes)					REMARKS				
SAMPLED BY: D Howard, E Guillen, B Updyke		SIGNATURE: <i>Daniel K Howard</i>												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)					REMARKS	Number of Containers	
		DATE	TIME				H	I	N	I	I			
1	TB-04	11/12/18	0900	X		W	X							2
2	TW-1		1135	X		GW	X	X	X	X				7
3	TW-2		1330	X		GW	X	X	X	X				7
4	TW-4		1545	X		GW	X	X	X	X				7
5	MW-22		1510	X		GW	X	X	X	X				7
6	MW-115		1310	X		GW	X	X	X	X				7
7	Temp Blank													
8														
9														
10														
11														
12														
13														
14														
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION					RECEIPT	
1. Daniel K Howard		11/12/18 1715		2. Ayana Blackwell		11-12-18 5:14		PROJECT NAME: BFEL Atlanta					Total # of Containers	
2. [Signature]		11-12-18 5:50 pm		3.				PROJECT #: 6122080154					Turnaround Time (TAT) Request	
3.								SITE ADDRESS: 1525 Pine St Atlanta, GA					<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS: Dissolved metals will be Filtered by Lab				SHIPMENT METHOD				SEND REPORT TO: Rhonda Quinn					STATE PROGRAM (if any): _____	
				OUT: / / VIA:				INVOICE TO (IF DIFFERENT FROM ABOVE):					E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>	
				IN: / / VIA:				QUOTE #: _____ PO#: _____					DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
				client FedEx UPS US mail courier										
				other: _____										

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Client: Wood Environment & Infrastructure

Project: BFEL- Atlanta

Lab ID: 1811A80

Case Narrative

Sample Receiving Non-conformance:

One of two ambers for sample MW-22 was received broken. The laboratory proceeded with analysis on the remaining amber bottle.

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-04
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 9:00:00 AM
Lab ID: 1811A80-001	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	270314	1	11/16/2018 19:53	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 19:53	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 19:53	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 19:53	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 19:53	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 19:53	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 19:53	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 19:53	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 19:53	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 19:53	JE
Surr: 4-Bromofluorobenzene	100	68-127		%REC	270314	1	11/16/2018 19:53	JE
Surr: Dibromofluoromethane	104	84.4-122		%REC	270314	1	11/16/2018 19:53	JE
Surr: Toluene-d8	98.3	80.1-116		%REC	270314	1	11/16/2018 19:53	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-1
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 11:35:00 AM
Lab ID: 1811A80-002	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	0.0058	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,1-Dichloroethene	0.0071	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/17/2018 00:51	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/17/2018 00:51	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/17/2018 00:51	JE
Acetone	BRL	0.050		mg/L	270314	1	11/17/2018 00:51	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/17/2018 00:51	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
cis-1,2-Dichloroethene	1.2	0.050		mg/L	270314	10	11/19/2018 13:41	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/17/2018 00:51	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Naphthalene	0.020	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Tetrachloroethene	0.013	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/17/2018 00:51	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Trichloroethene	1.0	0.050		mg/L	270314	10	11/19/2018 13:41	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Vinyl chloride	0.0099	0.0020		mg/L	270314	1	11/17/2018 00:51	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/17/2018 00:51	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270314	1	11/17/2018 00:51	JE
Surr: 4-Bromofluorobenzene	98.6	68-127		%REC	270314	10	11/19/2018 13:41	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270314	1	11/17/2018 00:51	JE
Surr: Dibromofluoromethane	102	84.4-122		%REC	270314	10	11/19/2018 13:41	JE
Surr: Toluene-d8	95.2	80.1-116		%REC	270314	1	11/17/2018 00:51	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-1
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 11:35:00 AM
Lab ID: 1811A80-002	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	97.5	80.1-116		%REC	270314	10	11/19/2018 13:41	JE
Total Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270159	1	11/13/2018 20:28	KT
Copper	0.00355	0.00200		mg/L	270159	1	11/13/2018 20:28	KT
Lead	BRL	0.00100		mg/L	270159	1	11/13/2018 20:28	KT
Zinc	0.341	0.0100		mg/L	270159	1	11/13/2018 20:28	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R384885	1	11/12/2018 12:35	GO
Sulfate	51	1.0		mg/L	R384885	1	11/12/2018 12:35	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:44	KT
Copper	BRL	0.00200		mg/L	270138	1	11/13/2018 21:44	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:44	KT
Zinc	0.330	0.0100		mg/L	270138	1	11/13/2018 21:44	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
4,4'-DDD	0.00073	0.00010		mg/L	270102	1	11/13/2018 14:34	UH
4,4'-DDE	0.00076	0.00010		mg/L	270102	1	11/13/2018 14:34	UH
4,4'-DDT	0.00041	0.00010		mg/L	270102	1	11/13/2018 14:34	UH
alpha-BHC	0.00012	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
beta-BHC	0.0012	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
delta-BHC	0.00016	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 14:34	UH
gamma-BHC	0.00010	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 14:34	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 14:34	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 14:34	UH
Surr: Decachlorobiphenyl	72.4	20.6-134		%REC	270102	1	11/13/2018 14:34	UH
Surr: Tetrachloro-m-xylene	77.2	37-128		%REC	270102	1	11/13/2018 14:34	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-2
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 1:30:00 PM
Lab ID: 1811A80-003	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	270314	1	11/17/2018 01:16	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/17/2018 01:16	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/17/2018 01:16	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/17/2018 01:16	JE
Acetone	BRL	0.050		mg/L	270314	1	11/17/2018 01:16	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/17/2018 01:16	JE
Chloroform	0.0089	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
cis-1,2-Dichloroethene	0.021	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/17/2018 01:16	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Tetrachloroethene	0.014	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/17/2018 01:16	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Trichloroethene	0.020	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/17/2018 01:16	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/17/2018 01:16	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270314	1	11/17/2018 01:16	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270314	1	11/17/2018 01:16	JE
Surr: Toluene-d8	97.7	80.1-116		%REC	270314	1	11/17/2018 01:16	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-2
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 1:30:00 PM
Lab ID: 1811A80-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270159	1	11/13/2018 20:31	KT
Copper	BRL	0.00200		mg/L	270159	1	11/13/2018 20:31	KT
Lead	BRL	0.00100		mg/L	270159	1	11/13/2018 20:31	KT
Zinc	BRL	0.0100		mg/L	270159	1	11/13/2018 20:31	KT
ION SCAN SW9056A								
Nitrate	6.1	0.25		mg/L	R384885	1	11/12/2018 12:50	GO
Sulfate	86	1.0		mg/L	R384885	1	11/12/2018 12:50	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:48	KT
Copper	BRL	0.00200		mg/L	270138	1	11/13/2018 21:48	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:48	KT
Zinc	0.0136	0.0100		mg/L	270138	1	11/13/2018 21:48	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 14:57	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 14:57	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 14:57	UH
alpha-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
beta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
delta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 14:57	UH
gamma-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 14:57	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 14:57	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 14:57	UH
Surr: Decachlorobiphenyl	75.8	20.6-134		%REC	270102	1	11/13/2018 14:57	UH
Surr: Tetrachloro-m-xylene	74.9	37-128		%REC	270102	1	11/13/2018 14:57	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-4
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 3:45:00 PM
Lab ID: 1811A80-004	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	270314	1	11/17/2018 01:40	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/17/2018 01:40	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/17/2018 01:40	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/17/2018 01:40	JE
Acetone	BRL	0.050		mg/L	270314	1	11/17/2018 01:40	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/17/2018 01:40	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/17/2018 01:40	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/17/2018 01:40	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/17/2018 01:40	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/17/2018 01:40	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270314	1	11/17/2018 01:40	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270314	1	11/17/2018 01:40	JE
Surr: Toluene-d8	97.9	80.1-116		%REC	270314	1	11/17/2018 01:40	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-4
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 3:45:00 PM
Lab ID: 1811A80-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270159	1	11/13/2018 20:44	KT
Copper	0.191	0.00200		mg/L	270159	1	11/13/2018 20:44	KT
Lead	BRL	0.00100		mg/L	270159	1	11/13/2018 20:44	KT
Zinc	0.941	0.0100		mg/L	270159	1	11/13/2018 20:44	KT
ION SCAN SW9056A								
Nitrate	4.8	0.25		mg/L	R384885	1	11/12/2018 13:05	GO
Sulfate	110	10		mg/L	R384885	10	11/12/2018 17:24	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:51	KT
Copper	0.179	0.00200		mg/L	270138	1	11/13/2018 21:51	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:51	KT
Zinc	0.901	0.0100		mg/L	270138	1	11/13/2018 21:51	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 15:08	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 15:08	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 15:08	UH
alpha-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
beta-BHC	0.0014	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
delta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 15:08	UH
gamma-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 15:08	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 15:08	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 15:08	UH
Surr: Decachlorobiphenyl	78.7	20.6-134		%REC	270102	1	11/13/2018 15:08	UH
Surr: Tetrachloro-m-xylene	77.6	37-128		%REC	270102	1	11/13/2018 15:08	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-22
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 3:10:00 PM
Lab ID: 1811A80-005	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	270314	1	11/17/2018 02:05	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/17/2018 02:05	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/17/2018 02:05	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/17/2018 02:05	JE
Acetone	BRL	0.050		mg/L	270314	1	11/17/2018 02:05	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/17/2018 02:05	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
cis-1,2-Dichloroethene	0.013	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/17/2018 02:05	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/17/2018 02:05	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/17/2018 02:05	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/17/2018 02:05	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270314	1	11/17/2018 02:05	JE
Surr: Dibromofluoromethane	111	84.4-122		%REC	270314	1	11/17/2018 02:05	JE
Surr: Toluene-d8	99.4	80.1-116		%REC	270314	1	11/17/2018 02:05	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-22
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 3:10:00 PM
Lab ID: 1811A80-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270159	1	11/13/2018 20:47	KT
Copper	3.56	0.00200		mg/L	270159	1	11/13/2018 20:47	KT
Lead	0.00391	0.00100		mg/L	270159	1	11/13/2018 20:47	KT
Zinc	5.63	0.0100		mg/L	270159	1	11/13/2018 20:47	KT
ION SCAN SW9056A								
Nitrate	3.7	0.25		mg/L	R384885	1	11/12/2018 13:20	GO
Sulfate	390	10		mg/L	R384885	10	11/12/2018 17:39	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:54	KT
Copper	3.53	0.00200		mg/L	270138	1	11/13/2018 21:54	KT
Lead	0.00299	0.00100		mg/L	270138	1	11/13/2018 21:54	KT
Zinc	5.48	0.0100		mg/L	270138	1	11/13/2018 21:54	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/14/2018 13:11	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/14/2018 13:11	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/14/2018 13:11	UH
alpha-BHC	0.000072	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
beta-BHC	0.00024	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
delta-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/14/2018 13:11	UH
gamma-BHC	0.00011	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/14/2018 13:11	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/14/2018 13:11	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/14/2018 13:11	UH
Surr: Decachlorobiphenyl	71.5	20.6-134		%REC	270193	1	11/14/2018 13:11	UH
Surr: Tetrachloro-m-xylene	62.6	37-128		%REC	270193	1	11/14/2018 13:11	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-115
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 1:10:00 PM
Lab ID: 1811A80-006	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	270314	1	11/17/2018 02:30	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/17/2018 02:30	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/17/2018 02:30	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/17/2018 02:30	JE
Acetone	BRL	0.050		mg/L	270314	1	11/17/2018 02:30	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/17/2018 02:30	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/17/2018 02:30	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/17/2018 02:30	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/17/2018 02:30	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/17/2018 02:30	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270314	1	11/17/2018 02:30	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270314	1	11/17/2018 02:30	JE
Surr: Toluene-d8	98	80.1-116		%REC	270314	1	11/17/2018 02:30	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-115
Project Name: BFEL- Atlanta	Collection Date: 11/12/2018 1:10:00 PM
Lab ID: 1811A80-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270159	1	11/13/2018 20:50	KT
Copper	2.84	0.00200		mg/L	270159	1	11/13/2018 20:50	KT
Lead	BRL	0.00100		mg/L	270159	1	11/13/2018 20:50	KT
Zinc	7.24	0.0100		mg/L	270159	1	11/13/2018 20:50	KT
ION SCAN SW9056A								
Nitrate	0.97	0.25		mg/L	R384885	1	11/12/2018 13:35	GO
Sulfate	590	10		mg/L	R384885	10	11/12/2018 17:54	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:57	KT
Copper	2.91	0.00200		mg/L	270138	1	11/13/2018 21:57	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:57	KT
Zinc	7.48	0.0100		mg/L	270138	1	11/13/2018 21:57	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/14/2018 13:22	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/14/2018 13:22	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/14/2018 13:22	UH
alpha-BHC	0.00020	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
beta-BHC	0.00033	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
delta-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/14/2018 13:22	UH
gamma-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/14/2018 13:22	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/14/2018 13:22	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/14/2018 13:22	UH
Surr: Decachlorobiphenyl	85.7	20.6-134		%REC	270193	1	11/14/2018 13:22	UH
Surr: Tetrachloro-m-xylene	64.4	37-128		%REC	270193	1	11/14/2018 13:22	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-1				Lab ID:	1811A80-002		
Collection Date: 11/12/2018 11:35:00 AM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
1,1,1-Trichloroethane	0.0058		0.00030	0.0050	mg/L	270314	1
1,1-Dichloroethene	0.0071		0.00040	0.0050	mg/L	270314	1
cis-1,2-Dichloroethene	1.2		0.0028	0.050	mg/L	270314	10
Naphthalene	0.020		0.00093	0.0050	mg/L	270314	1
Tetrachloroethene	0.013		0.00046	0.0050	mg/L	270314	1
Trichloroethene	1.0		0.0030	0.050	mg/L	270314	10
Vinyl chloride	0.0099		0.00030	0.0020	mg/L	270314	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00355		0.00186	0.00200	mg/L	270159	1
Zinc	0.341		0.00168	0.0100	mg/L	270159	1
ION SCAN SW9056A							
Sulfate	51		0.12	1.0	mg/L	R384885	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.330		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
4,4'-DDD	0.00073		0.000014	0.00010	mg/L	270102	1
4,4'-DDE	0.00076		0.000010	0.00010	mg/L	270102	1
4,4'-DDT	0.00041		0.000007	0.00010	mg/L	270102	1
alpha-BHC	0.00012		0.000010	0.000050	mg/L	270102	1
beta-BHC	0.0012		0.000004	0.000050	mg/L	270102	1
delta-BHC	0.00016		0.000009	0.000050	mg/L	270102	1
gamma-BHC	0.00010		0.000005	0.000050	mg/L	270102	1
Client Sample ID: TW-2				Lab ID:	1811A80-003		
Collection Date: 11/12/2018 1:30:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
Chloroform	0.0089		0.00020	0.0050	mg/L	270314	1
cis-1,2-Dichloroethene	0.021		0.00028	0.0050	mg/L	270314	1
Tetrachloroethene	0.014		0.00046	0.0050	mg/L	270314	1
Trichloroethene	0.020		0.00030	0.0050	mg/L	270314	1
ION SCAN SW9056A							
Nitrate	6.1		0.055	0.25	mg/L	R384885	1
Sulfate	86		0.12	1.0	mg/L	R384885	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.0136		0.00168	0.0100	mg/L	270138	1
Client Sample ID: TW-4				Lab ID:	1811A80-004		
Collection Date: 11/12/2018 3:45:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.191		0.00186	0.00200	mg/L	270159	1
Zinc	0.941		0.00168	0.0100	mg/L	270159	1
ION SCAN SW9056A							
Nitrate	4.8		0.055	0.25	mg/L	R384885	1
Sulfate	110		1.2	10	mg/L	R384885	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-4				Lab ID: 1811A80-004			
Collection Date: 11/12/2018 3:45:00 PM				Matrix: Groundwater			
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.179		0.00186	0.00200	mg/L	270138	1
Zinc	0.901		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
beta-BHC	0.0014		0.000004	0.000050	mg/L	270102	1
Client Sample ID: MW-22				Lab ID: 1811A80-005			
Collection Date: 11/12/2018 3:10:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
cis-1,2-Dichloroethene	0.013		0.00028	0.0050	mg/L	270314	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	3.56		0.00186	0.00200	mg/L	270159	1
Lead	0.00391		0.000621	0.00100	mg/L	270159	1
Zinc	5.63		0.00168	0.0100	mg/L	270159	1
ION SCAN SW9056A							
Nitrate	3.7		0.055	0.25	mg/L	R384885	1
Sulfate	390		1.2	10	mg/L	R384885	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	3.53		0.00186	0.00200	mg/L	270138	1
Lead	0.00299		0.000621	0.00100	mg/L	270138	1
Zinc	5.48		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.000072		0.000010	0.000050	mg/L	270193	1
beta-BHC	0.00024		0.000004	0.000050	mg/L	270193	1
gamma-BHC	0.00011		0.000005	0.000050	mg/L	270193	1
Client Sample ID: MW-115				Lab ID: 1811A80-006			
Collection Date: 11/12/2018 1:10:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	2.84		0.00186	0.00200	mg/L	270159	1
Zinc	7.24		0.00168	0.0100	mg/L	270159	1
ION SCAN SW9056A							
Nitrate	0.97		0.055	0.25	mg/L	R384885	1
Sulfate	590		1.2	10	mg/L	R384885	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	2.91		0.00186	0.00200	mg/L	270138	1
Zinc	7.48		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00020		0.000010	0.000050	mg/L	270193	1
beta-BHC	0.00033		0.000004	0.000050	mg/L	270193	1

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
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> Greater than Result value

J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Lab Order: 1811A80

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811A80-001A	TB-04	11/12/2018 9:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811A80-002A	TW-1	11/12/2018 11:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/17/2018
1811A80-002A	TW-1	11/12/2018 11:35:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/19/2018
1811A80-002B	TW-1	11/12/2018 11:35:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811A80-002C	TW-1	11/12/2018 11:35:00AM	Groundwater	ION SCAN			11/12/2018
1811A80-002D	TW-1	11/12/2018 11:35:00AM	Groundwater	Total Metals by ICP/MS		11/13/2018 1:59:00PM	11/13/2018
1811A80-002E	TW-1	11/12/2018 11:35:00AM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811A80-003A	TW-2	11/12/2018 1:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/17/2018
1811A80-003B	TW-2	11/12/2018 1:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811A80-003C	TW-2	11/12/2018 1:30:00PM	Groundwater	ION SCAN			11/12/2018
1811A80-003D	TW-2	11/12/2018 1:30:00PM	Groundwater	Total Metals by ICP/MS		11/13/2018 1:59:00PM	11/13/2018
1811A80-003E	TW-2	11/12/2018 1:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811A80-004A	TW-4	11/12/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/17/2018
1811A80-004B	TW-4	11/12/2018 3:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811A80-004C	TW-4	11/12/2018 3:45:00PM	Groundwater	ION SCAN			11/12/2018
1811A80-004D	TW-4	11/12/2018 3:45:00PM	Groundwater	Total Metals by ICP/MS		11/13/2018 1:59:00PM	11/13/2018
1811A80-004E	TW-4	11/12/2018 3:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811A80-005A	MW-22	11/12/2018 3:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/17/2018
1811A80-005B	MW-22	11/12/2018 3:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/14/2018
1811A80-005C	MW-22	11/12/2018 3:10:00PM	Groundwater	ION SCAN			11/12/2018
1811A80-005D	MW-22	11/12/2018 3:10:00PM	Groundwater	Total Metals by ICP/MS		11/13/2018 1:59:00PM	11/13/2018
1811A80-005E	MW-22	11/12/2018 3:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811A80-006A	MW-115	11/12/2018 1:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/17/2018
1811A80-006B	MW-115	11/12/2018 1:10:00PM	Groundwater	Pesticides and PCBs		11/14/2018 11:00:00AM	11/14/2018
1811A80-006B	MW-115	11/12/2018 1:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/14/2018
1811A80-006C	MW-115	11/12/2018 1:10:00PM	Groundwater	ION SCAN			11/12/2018
1811A80-006D	MW-115	11/12/2018 1:10:00PM	Groundwater	Total Metals by ICP/MS		11/13/2018 1:59:00PM	11/13/2018
1811A80-006E	MW-115	11/12/2018 1:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270102

Sample ID: MB-270102	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586907							
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	0.000393	0	0.0005		78.6	20.6	134				
Surr: Tetrachloro-m-xylene	0.000333	0	0.0005		66.5	37	128				

Sample ID: LCS-270102	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000980	0.00010	0.0010		98.0	61	127				
Dieldrin	0.000934	0.00010	0.0010		93.4	66.8	130				
gamma-BHC	0.000976	0.000050	0.0010		97.6	70.2	129				
Heptachlor	0.000931	0.000050	0.0010		93.1	65.1	131				
Surr: Decachlorobiphenyl	0.000405	0	0.0005		81.0	20.6	134				
Surr: Tetrachloro-m-xylene	0.000353	0	0.0005		70.5	37	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270102

Sample ID: 1811906-004BMS	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000988	0.00010	0.0010		98.8	42.4	138				
Dieldrin	0.000918	0.00010	0.0010		91.8	44.9	138				
gamma-BHC	0.000945	0.000050	0.0010		94.5	56.5	137				
Heptachlor	0.000974	0.000050	0.0010		97.3	43.6	134				
Surr: Decachlorobiphenyl	0.000376	0	0.0005		75.3	20.6	134				
Surr: Tetrachloro-m-xylene	0.000339	0	0.0005		67.7	37	128				

Sample ID: 1811906-004BMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000955	0.00010	0.0010		95.5	42.4	138	0.0009878	3.39	20	
Dieldrin	0.000875	0.00010	0.0010		87.5	44.9	138	0.0009177	4.77	20	
gamma-BHC	0.000898	0.000050	0.0010		89.8	56.5	137	0.0009454	5.18	20	
Heptachlor	0.000913	0.000050	0.0010		91.3	43.6	134	0.0009735	6.42	21.3	
Surr: Decachlorobiphenyl	0.000374	0	0.0005		74.8	20.6	134	0.0003763	0	0	
Surr: Tetrachloro-m-xylene	0.000321	0	0.0005		64.2	37	128	0.0003387	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270138

Sample ID: MB-270138	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588383							
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-270138	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588384							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1005	0.00500	0.1000		100	80	120				
Copper	0.1025	0.00200	0.1000		103	80	120				
Lead	0.09674	0.00100	0.1000		96.7	80	120				
Zinc	0.1033	0.0100	0.1000	0.004565	98.7	80	120				

Sample ID: 1811796-002DMS	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588386							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1008	0.00500	0.1000		101	75	125				
Copper	0.1114	0.00200	0.1000	0.01111	100	75	125				
Lead	0.08509	0.00100	0.1000		85.1	75	125				
Zinc	0.3632	0.0100	0.1000	0.2573	106	75	125				

Sample ID: 1811796-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588387							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1022	0.00500	0.1000		102	75	125	0.1008	1.41	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270138

Sample ID: 1811796-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588387							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1117	0.00200	0.1000	0.01111	101	75	125	0.1114	0.287	20	
Lead	0.08657	0.00100	0.1000		86.6	75	125	0.08509	1.72	20	
Zinc	0.3493	0.0100	0.1000	0.2573	91.9	75	125	0.3632	3.92	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270159

Sample ID: MB-270159	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384645							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270159	Analysis Date: 11/13/2018	Seq No: 8588611							
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-270159	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384645							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270159	Analysis Date: 11/13/2018	Seq No: 8588612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1076	0.00500	0.1000		108	80	120				
Copper	0.1070	0.00200	0.1000		107	80	120				
Lead	0.09859	0.00100	0.1000		98.6	80	120				
Zinc	0.1045	0.0100	0.1000		105	80	120				

Sample ID: 1811572-029BMS	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384645							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270159	Analysis Date: 11/13/2018	Seq No: 8588614							
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	0.1000		104	75	125				
Copper	0.1053	0.00200	0.1000		105	75	125				
Lead	0.1007	0.00100	0.1000		101	75	125				
Zinc	0.1048	0.0100	0.1000	0.003030	102	75	125				

Sample ID: 1811572-029BMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384645							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270159	Analysis Date: 11/13/2018	Seq No: 8588615							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1065	0.00500	0.1000		106	75	125	0.1040	2.37	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270159

Sample ID: 1811572-029BMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384645							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270159	Analysis Date: 11/13/2018	Seq No: 8588615							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1086	0.00200	0.1000		109	75	125	0.1053	3.13	20	
Lead	0.1018	0.00100	0.1000		102	75	125	0.1007	1.08	20	
Zinc	0.1072	0.0100	0.1000	0.003030	104	75	125	0.1048	2.25	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: MB-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589114							
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	0.000269	0	0.0005		53.7	20.6	134				
Surr: Tetrachloro-m-xylene	0.000328	0	0.0005		65.5	37	128				

Sample ID: LCS-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001044	0.00010	0.0010		104	61	127				
Dieldrin	0.000949	0.00010	0.0010		94.9	66.8	130				
gamma-BHC	0.000975	0.000050	0.0010		97.5	70.2	129				
Heptachlor	0.000849	0.000050	0.0010		84.9	65.1	131				
Surr: Decachlorobiphenyl	0.000292	0	0.0005		58.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.000339	0	0.0005		67.8	37	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: 1811A80-006BMS	Client ID: MW-115	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589137							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001074	0.00010	0.0010		107	42.4	138				
Dieldrin	0.000995	0.00010	0.0010	0.00001870	97.6	44.9	138				
gamma-BHC	0.001038	0.000050	0.0010	0.00004134	99.6	56.5	137				
Heptachlor	0.000913	0.000050	0.0010		91.3	43.6	134				
Surr: Decachlorobiphenyl	0.000441	0	0.0005		88.2	20.6	134				
Surr: Tetrachloro-m-xylene	0.000377	0	0.0005		75.4	37	128				

Sample ID: 1811A80-006BMSD	Client ID: MW-115	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589138							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001108	0.00010	0.0010		111	42.4	138	0.001074	3.08	20	
Dieldrin	0.001004	0.00010	0.0010	0.00001870	98.5	44.9	138	0.0009950	0.877	20	
gamma-BHC	0.001031	0.000050	0.0010	0.00004134	99.0	56.5	137	0.001038	0.620	20	
Heptachlor	0.000844	0.000050	0.0010		84.4	43.6	134	0.0009130	7.86	21.3	
Surr: Decachlorobiphenyl	0.000436	0	0.0005		87.3	20.6	134	0.0004412	0	0	
Surr: Tetrachloro-m-xylene	0.000322	0	0.0005		64.4	37	128	0.0003770	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: MB-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595412							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: MB-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05808	0	0.0500		116	68	127				
Surr: Dibromofluoromethane	0.05147	0	0.0500		103	84.4	122				
Surr: Toluene-d8	0.05050	0	0.0500		101	80.1	116				

Sample ID: LCS-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.01813	0.0050	0.0200		90.6	69	136				
Benzene	0.01748	0.0050	0.0200		87.4	73.7	126				
Chlorobenzene	0.01698	0.0050	0.0200		84.9	73.5	124				
Toluene	0.01761	0.0050	0.0200		88.0	76.8	125				
Trichloroethene	0.01770	0.0050	0.0200		88.5	70.9	124				
Surr: 4-Bromofluorobenzene	0.04851	0	0.0500		97.0	68	127				
Surr: Dibromofluoromethane	0.04966	0	0.0500		99.3	84.4	122				
Surr: Toluene-d8	0.04993	0	0.0500		99.9	80.1	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: 1811A80-002AMS	Client ID: TW-1	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597080							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.6162	0.050	0.5000		123	65.7	143				
Benzene	0.5515	0.050	0.5000		110	66.1	137				
Chlorobenzene	0.5433	0.050	0.5000		109	70.9	132				
Toluene	0.5364	0.050	0.5000		107	63.8	141				
Trichloroethene	1.656	0.050	0.5000	1.043	122	70.6	128				
Surr: 4-Bromofluorobenzene	0.4946	0	0.5000		98.9	68	127				
Surr: Dibromofluoromethane	0.5109	0	0.5000		102	84.4	122				
Surr: Toluene-d8	0.4891	0	0.5000		97.8	80.1	116				

Sample ID: 1811A80-002ADUP	Client ID: TW-1	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597079							
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	0.050						0	0	30	
1,1,2,2-Tetrachloroethane	BRL	0.050						0	0	30	
1,1,2-Trichloroethane	BRL	0.050						0	0	30	
1,1-Dichloroethane	BRL	0.050						0	0	30	
1,1-Dichloroethene	BRL	0.050						0	0	30	
1,1-Dichloropropene	BRL	0.050						0	0	30	
1,2,4-Trichlorobenzene	BRL	0.050						0	0	30	
1,2-Dichloroethane	BRL	0.050						0	0	30	
1,2-Dichloropropane	BRL	0.050						0	0	30	
1,4-Dioxane	BRL	1.5						0	0	30	
2-Butanone	BRL	0.50						0	0	30	
4-Methyl-2-pentanone	BRL	0.10						0	0	30	
Acetone	BRL	0.50						0	0	30	
Benzene	BRL	0.050						0	0	30	
Carbon disulfide	BRL	0.050						0	0	30	

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: 1811A80-002ADUP	Client ID: TW-1	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597079							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Carbon tetrachloride	BRL	0.050						0	0	30	
Chlorobenzene	BRL	0.050						0	0	30	
Chloroethane	BRL	0.10						0	0	30	
Chloroform	BRL	0.050						0	0	30	
Chloromethane	BRL	0.10						0	0	30	
cis-1,2-Dichloroethene	1.262	0.050						1.249	1.05	30	
Cyclohexane	BRL	0.050						0	0	30	
Ethylbenzene	BRL	0.050						0	0	30	
Isobutyl Alcohol	BRL	2.0						0	0	30	
Isopropylbenzene	BRL	0.050						0	0	30	
Methylene chloride	BRL	0.050						0	0	30	
Naphthalene	BRL	0.050						0.01670	0	30	
Styrene	BRL	0.050						0	0	30	
Tetrachloroethene	BRL	0.050						0.01190	0	30	
Tetrahydrofuran	BRL	0.10						0	0	30	
Toluene	BRL	0.050						0	0	30	
trans-1,2-Dichloroethene	BRL	0.050						0	0	30	
Trichloroethene	1.076	0.050						1.043	3.11	30	
Trichlorofluoromethane	BRL	0.050						0	0	30	
Vinyl chloride	BRL	0.020						0	0	30	
Xylenes, Total	BRL	0.050						0	0	30	
Surr: 4-Bromofluorobenzene	0.5033	0	0.5000		101	68	127	0.4930	0	0	
Surr: Dibromofluoromethane	0.5050	0	0.5000		101	84.4	122	0.5087	0	0	
Surr: Toluene-d8	0.4860	0	0.5000		97.2	80.1	116	0.4874	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811A80

ANALYTICAL QC SUMMARY REPORT

BatchID: R384885

Sample ID: MB-R384885	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594210							
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-R384885	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594209							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.018 0.25 5.000 100 90 110
 Sulfate 24.52 1.0 25.00 0.2323 97.1 90 110

Sample ID: 1811B73-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594223							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 55.87 2.5 50.00 4.426 103 90 110
 Sulfate 276.3 10 250.0 32.84 97.4 90 110

Sample ID: 1811B73-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594224							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 56.52 2.5 50.00 4.426 104 90 110 55.87 1.15 20
 Sulfate 277.7 10 250.0 32.84 98.0 90 110 276.3 0.515 20

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 21, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL - Atlanta

Dear Rhonda Quinn:

Order No: 1811C03

Analytical Environmental Services, Inc. received 3 samples on 11/13/2018 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

Date: 11/13/18 Page 1 of 1

COMPANY: Wood E+IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 770-421-3400		FAX:				<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="display: flex; justify-content: space-between; width: 100%;"> VOC list 8260 Pest 8081A </div> <div style="display: flex; justify-content: space-between; width: 100%;"> Nitrate 9056 Sulfate 9056 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> Transitionals 6020 Asbestos 20 </div> <div style="display: flex; justify-content: space-between; width: 100%;"> Diss Metals 6020 Asbestos 20 </div> </div>													
SAMPLED BY: D Howard, E Guillen, B Updyke		SIGNATURE: <i>Daniel Howard</i>				PRESERVATION (See codes)										REMARKS			
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS	No # of Containers	
		DATE	TIME				H	I	N	I									
1	TB-05	11/13/18	0900	X		W	X											2	
2	TN-3	↓	1455	X		GW	X	X	X	X								7	
3	MW-117	↓	1450	X		GW	X	X	X	X								7	
4	Temp Blank																		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION										RECEIPT	
1: Daniel Howard		11/13/18 1624		1: [Signature]		11-13-18 3:25		PROJECT NAME: BFEL Atlanta										Total # of Containers	
2: [Signature]		11-13-18 5:03		2: [Signature]		11/13/18 17:06		PROJECT #: 6122080154										Turnaround Time Request	
3:								SITE ADDRESS: 1525 Pine St Atlanta, GA										<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other	
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD				INVOICE TO:										STATE PROGRAM (if any):			
Dissolved metals will be filtered by Lab		OUT / / VIA: IN / / VIA: CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER				Rhonda Quinn										GA			
						(IF DIFFERENT FROM ABOVE)										E-mail? <input checked="" type="radio"/> N; Fax? Y/N			
						QUOTE #: PO#:										DATA PACKAGE: I <input checked="" type="radio"/> 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.

Analytical Environmental Services, Inc

Date: 21-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-05
Project Name: BFEL - Atlanta	Collection Date: 11/13/2018 9:00:00 AM
Lab ID: 1811C03-001	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	270425	1	11/16/2018 20:18	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/16/2018 20:18	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/16/2018 20:18	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/16/2018 20:18	JE
Acetone	BRL	0.050		mg/L	270425	1	11/16/2018 20:18	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/16/2018 20:18	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/16/2018 20:18	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/16/2018 20:18	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/16/2018 20:18	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/16/2018 20:18	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/16/2018 20:18	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270425	1	11/16/2018 20:18	JE
Surr: Toluene-d8	97.6	80.1-116		%REC	270425	1	11/16/2018 20:18	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-3
Project Name: BFEL - Atlanta	Collection Date: 11/13/2018 2:55:00 PM
Lab ID: 1811C03-002	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	270425	1	11/17/2018 02:54	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/17/2018 02:54	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/17/2018 02:54	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/17/2018 02:54	JE
Acetone	BRL	0.050		mg/L	270425	1	11/17/2018 02:54	JE
Benzene	0.015	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Chlorobenzene	0.025	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/17/2018 02:54	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
cis-1,2-Dichloroethene	0.17	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/17/2018 02:54	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/17/2018 02:54	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Vinyl chloride	0.0022	0.0020		mg/L	270425	1	11/17/2018 02:54	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/17/2018 02:54	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/17/2018 02:54	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270425	1	11/17/2018 02:54	JE
Surr: Toluene-d8	97	80.1-116		%REC	270425	1	11/17/2018 02:54	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 21-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-3
Project Name: BFEL - Atlanta	Collection Date: 11/13/2018 2:55:00 PM
Lab ID: 1811C03-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 20:01	JW
Copper	0.743	0.00200		mg/L	270256	1	11/15/2018 20:01	JW
Lead	0.00248	0.00100		mg/L	270256	1	11/15/2018 20:01	JW
Zinc	2.05	0.0100		mg/L	270256	1	11/15/2018 20:01	JW
ION SCAN SW9056A								
Nitrate	1.6	0.25		mg/L	R384885	1	11/12/2018 20:02	GO
Sulfate	550	10		mg/L	R384739	10	11/13/2018 23:20	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 16:58	KT
Copper	0.765	0.00200		mg/L	270411	1	11/19/2018 16:58	KT
Lead	0.00229	0.00100		mg/L	270411	1	11/19/2018 16:58	KT
Zinc	2.07	0.0100		mg/L	270411	1	11/19/2018 16:58	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/14/2018 14:07	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/14/2018 14:07	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/14/2018 14:07	UH
alpha-BHC	0.0016	0.00010		mg/L	270193	2	11/14/2018 14:29	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 14:07	UH
beta-BHC	0.0016	0.00010		mg/L	270193	2	11/14/2018 14:29	UH
delta-BHC	0.00046	0.000050		mg/L	270193	1	11/14/2018 14:07	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/14/2018 14:07	UH
gamma-BHC	0.00067	0.000050		mg/L	270193	1	11/14/2018 14:07	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 14:07	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/14/2018 14:07	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/14/2018 14:07	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/14/2018 14:07	UH
Surr: Decachlorobiphenyl	83	20.6-134		%REC	270193	1	11/14/2018 14:07	UH
Surr: Tetrachloro-m-xylene	76.7	37-128		%REC	270193	1	11/14/2018 14:07	UH

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: 21-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-117
Project Name: BFEL - Atlanta	Collection Date: 11/13/2018 2:50:00 PM
Lab ID: 1811C03-003	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	270425	1	11/19/2018 16:06	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 16:06	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 16:06	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 16:06	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 16:06	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 16:06	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 16:06	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 16:06	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 16:06	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 16:06	JE
Surr: 4-Bromofluorobenzene	99.8	68-127		%REC	270425	1	11/19/2018 16:06	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270425	1	11/19/2018 16:06	JE
Surr: Toluene-d8	97.7	80.1-116		%REC	270425	1	11/19/2018 16:06	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 21-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-117
Project Name: BFEL - Atlanta	Collection Date: 11/13/2018 2:50:00 PM
Lab ID: 1811C03-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 20:17	JW
Copper	0.0343	0.00200		mg/L	270256	1	11/15/2018 20:17	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 20:17	JW
Zinc	0.805	0.0100		mg/L	270256	1	11/15/2018 20:17	JW
ION SCAN SW9056A								
Nitrate	4.1	0.25		mg/L	R384885	1	11/12/2018 20:17	GO
Sulfate	120	10		mg/L	R384739	10	11/13/2018 23:35	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:14	KT
Copper	0.0328	0.00200		mg/L	270411	1	11/20/2018 12:16	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:14	KT
Zinc	0.882	0.0100		mg/L	270411	1	11/20/2018 12:16	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/14/2018 14:18	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/14/2018 14:18	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/14/2018 14:18	UH
alpha-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
beta-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
delta-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/14/2018 14:18	UH
gamma-BHC	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/14/2018 14:18	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/14/2018 14:18	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/14/2018 14:18	UH
Surr: Decachlorobiphenyl	61.2	20.6-134		%REC	270193	1	11/14/2018 14:18	UH
Surr: Tetrachloro-m-xylene	84.1	37-128		%REC	270193	1	11/14/2018 14:18	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-3				Lab ID:	1811C03-002		
Collection Date: 11/13/2018 2:55:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
Benzene	0.015		0.00037	0.0050	mg/L	270425	1
Chlorobenzene	0.025		0.00042	0.0050	mg/L	270425	1
cis-1,2-Dichloroethene	0.17		0.00028	0.0050	mg/L	270425	1
Vinyl chloride	0.0022		0.00030	0.0020	mg/L	270425	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.743		0.00186	0.00200	mg/L	270256	1
Lead	0.00248		0.000621	0.00100	mg/L	270256	1
Zinc	2.05		0.00168	0.0100	mg/L	270256	1
ION SCAN SW9056A							
Nitrate	1.6		0.055	0.25	mg/L	R384885	1
Sulfate	550		1.2	10	mg/L	R384739	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.765		0.00186	0.00200	mg/L	270411	1
Lead	0.00229		0.000621	0.00100	mg/L	270411	1
Zinc	2.07		0.00168	0.0100	mg/L	270411	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0016		0.000020	0.00010	mg/L	270193	2
beta-BHC	0.0016		0.000008	0.00010	mg/L	270193	2
delta-BHC	0.00046		0.000009	0.000050	mg/L	270193	1
gamma-BHC	0.00067		0.000005	0.000050	mg/L	270193	1
Client Sample ID: MW-117				Lab ID:	1811C03-003		
Collection Date: 11/13/2018 2:50:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0343		0.00186	0.00200	mg/L	270256	1
Zinc	0.805		0.00168	0.0100	mg/L	270256	1
ION SCAN SW9056A							
Nitrate	4.1		0.055	0.25	mg/L	R384885	1
Sulfate	120		1.2	10	mg/L	R384739	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0328		0.00186	0.00200	mg/L	270411	1
Zinc	0.882		0.00168	0.0100	mg/L	270411	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Lab Order: 1811C03

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811C03-001A	TB-05	11/13/2018 9:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/16/2018
1811C03-002A	TW-3	11/13/2018 2:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/17/2018
1811C03-002B	TW-3	11/13/2018 2:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/14/2018
1811C03-002C	TW-3	11/13/2018 2:55:00PM	Groundwater	ION SCAN			11/12/2018
1811C03-002C	TW-3	11/13/2018 2:55:00PM	Groundwater	ION SCAN			11/13/2018
1811C03-002D	TW-3	11/13/2018 2:55:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811C03-002E	TW-3	11/13/2018 2:55:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018
1811C03-003A	MW-117	11/13/2018 2:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811C03-003B	MW-117	11/13/2018 2:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/14/2018
1811C03-003C	MW-117	11/13/2018 2:50:00PM	Groundwater	ION SCAN			11/12/2018
1811C03-003C	MW-117	11/13/2018 2:50:00PM	Groundwater	ION SCAN			11/13/2018
1811C03-003D	MW-117	11/13/2018 2:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811C03-003D	MW-117	11/13/2018 2:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/20/2018
1811C03-003E	MW-117	11/13/2018 2:50:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: MB-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589114							
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	0.000269	0	0.0005		53.7	20.6	134				
Surr: Tetrachloro-m-xylene	0.000328	0	0.0005		65.5	37	128				

Sample ID: LCS-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001044	0.00010	0.0010		104	61	127				
Dieldrin	0.000949	0.00010	0.0010		94.9	66.8	130				
gamma-BHC	0.000975	0.000050	0.0010		97.5	70.2	129				
Heptachlor	0.000849	0.000050	0.0010		84.9	65.1	131				
Surr: Decachlorobiphenyl	0.000292	0	0.0005		58.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.000339	0	0.0005		67.8	37	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: 1811A80-006BMS	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589137							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001074	0.00010	0.0010		107	42.4	138				
Dieldrin	0.000995	0.00010	0.0010	0.00001870	97.6	44.9	138				
gamma-BHC	0.001038	0.000050	0.0010	0.00004134	99.6	56.5	137				
Heptachlor	0.000913	0.000050	0.0010		91.3	43.6	134				
Surr: Decachlorobiphenyl	0.000441	0	0.0005		88.2	20.6	134				
Surr: Tetrachloro-m-xylene	0.000377	0	0.0005		75.4	37	128				

Sample ID: 1811A80-006BMSD	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589138							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001108	0.00010	0.0010		111	42.4	138	0.001074	3.08	20	
Dieldrin	0.001004	0.00010	0.0010	0.00001870	98.5	44.9	138	0.0009950	0.877	20	
gamma-BHC	0.001031	0.000050	0.0010	0.00004134	99.0	56.5	137	0.001038	0.620	20	
Heptachlor	0.000844	0.000050	0.0010		84.4	43.6	134	0.0009130	7.86	21.3	
Surr: Decachlorobiphenyl	0.000436	0	0.0005		87.3	20.6	134	0.0004412	0	0	
Surr: Tetrachloro-m-xylene	0.000322	0	0.0005		64.4	37	128	0.0003770	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270256

Sample ID: MB-270256	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593685							
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-270256	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1066	0.00500	0.1000		107	80	120				
Copper	0.1064	0.00200	0.1000		106	80	120				
Lead	0.1035	0.00100	0.1000		103	80	120				
Zinc	0.1049	0.0100	0.1000		105	80	120				

Sample ID: 1811C03-002EMS	Client ID: TW-3	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593690							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09851	0.00500	0.1000		98.5	75	125				
Copper	0.8284	0.00200	0.1000	0.7432	85.3	75	125				
Lead	0.09990	0.00100	0.1000	0.002481	97.4	75	125				
Zinc	2.098	0.0100	0.1000	2.055	43.7	75	125				S

Sample ID: 1811C03-002EMSD	Client ID: TW-3	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1008	0.00500	0.1000		101	75	125	0.09851	2.30	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270256

Sample ID: 1811C03-002EMSD	Client ID: TW-3	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.8389	0.00200	0.1000	0.7432	95.8	75	125	0.8284	1.26	20	
Lead	0.1011	0.00100	0.1000	0.002481	98.6	75	125	0.09990	1.22	20	
Zinc	2.145	0.0100	0.1000	2.055	90.1	75	125	2.098	2.19	20	

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270411

Sample ID: MB-270411	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597924							
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-270411	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09501	0.00500	0.1000		95.0	80	120				
Copper	0.09531	0.00200	0.1000		95.3	80	120				
Lead	0.09317	0.00100	0.1000		93.2	80	120				
Zinc	0.09520	0.0100	0.1000	0.003368	91.8	80	120				

Sample ID: 1811C03-002DMS	Client ID: TW-3	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1000	0.00500	0.1000		100	75	125				
Copper	0.8658	0.00200	0.1000	0.7654	100	75	125				
Lead	0.09485	0.00100	0.1000	0.002287	92.6	75	125				
Zinc	2.171	0.0100	0.1000	2.066	105	75	125				

Sample ID: 1811C03-002DMSD	Client ID: TW-3	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09907	0.00500	0.1000		99.1	75	125	0.1000	0.947	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270411

Sample ID: 1811C03-002DMSD	Client ID: TW-3	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.8522	0.00200	0.1000	0.7654	86.8	75	125	0.8658	1.59	20	
Lead	0.09606	0.00100	0.1000	0.002287	93.8	75	125	0.09485	1.28	20	
Zinc	2.154	0.0100	0.1000	2.066	88.0	75	125	2.171	0.794	20	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05198	0	0.0500		104	68	127				
Surr: Dibromofluoromethane	0.05206	0	0.0500		104	84.4	122				
Surr: Toluene-d8	0.04969	0	0.0500		99.4	80.1	116				

Sample ID: LCS-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384986							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/19/2018	Seq No: 8599017							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.05976	0.0050	0.0500		120	69	136				
Benzene	0.05210	0.0050	0.0500		104	73.7	126				
Chlorobenzene	0.05255	0.0050	0.0500		105	73.5	124				
Toluene	0.05441	0.0050	0.0500		109	76.8	125				
Trichloroethene	0.05309	0.0050	0.0500		106	70.9	124				
Surr: 4-Bromofluorobenzene	0.04962	0	0.0500		99.2	68	127				
Surr: Dibromofluoromethane	0.04793	0	0.0500		95.9	84.4	122				
Surr: Toluene-d8	0.05018	0	0.0500		100	80.1	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: 1811F10-003AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.103	0.25	2.500		124	65.7	143				
Benzene	2.848	0.25	2.500	0.1285	109	66.1	137				
Chlorobenzene	3.724	0.25	2.500	1.124	104	70.9	132				
Toluene	2.574	0.25	2.500		103	63.8	141				
Trichloroethene	2.664	0.25	2.500		107	70.6	128				
Surr: 4-Bromofluorobenzene	2.470	0	2.500		98.8	68	127				
Surr: Dibromofluoromethane	2.678	0	2.500		107	84.4	122				
Surr: Toluene-d8	2.472	0	2.500		98.9	80.1	116				

Sample ID: 1811F10-003AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.074	0.25	2.500		123	65.7	143	3.103	0.955	17.7	
Benzene	2.783	0.25	2.500	0.1285	106	66.1	137	2.848	2.31	20	
Chlorobenzene	3.624	0.25	2.500	1.124	100	70.9	132	3.724	2.72	20	
Toluene	2.533	0.25	2.500		101	63.8	141	2.574	1.63	20	
Trichloroethene	2.552	0.25	2.500		102	70.6	128	2.664	4.27	20	
Surr: 4-Bromofluorobenzene	2.498	0	2.500		99.9	68	127	2.470	0	0	
Surr: Dibromofluoromethane	2.696	0	2.500		108	84.4	122	2.678	0	0	
Surr: Toluene-d8	2.503	0	2.500		100	80.1	116	2.472	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: R384739

Sample ID: MB-R384739	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/13/2018	Seq No: 8599366							
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-R384739	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/13/2018	Seq No: 8599365							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 4.910 0.25 5.000 98.2 90 110
 Sulfate 24.57 1.0 25.00 98.3 90 110

Sample ID: 1811C88-001FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599393							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.047 0.25 5.000 1.715 107 90 110
 Sulfate 28.94 1.0 25.00 4.226 98.9 90 110

Sample ID: 1811C88-007GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599395							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.127 0.25 5.000 103 90 110
 Sulfate 24.45 1.0 25.00 0.1606 97.2 90 110

Sample ID: 1811C88-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.068 0.25 5.000 1.715 107 90 110 7.047 0.301 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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: R384739

Sample ID: 1811C88-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384739
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599394

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	29.07	1.0	25.00	4.226	99.4	90	110	28.94	0.420	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811C03

ANALYTICAL QC SUMMARY REPORT

BatchID: R384885

Sample ID: MB-R384885	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594210							
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-R384885	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594209							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.018 0.25 5.000 100 90 110
 Sulfate 24.52 1.0 25.00 0.2323 97.1 90 110

Sample ID: 1811B73-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594223							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 55.87 2.5 50.00 4.426 103 90 110
 Sulfate 276.3 10 250.0 32.84 97.4 90 110

Sample ID: 1811B73-002BMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384885							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384885	Analysis Date: 11/12/2018	Seq No: 8594224							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 56.52 2.5 50.00 4.426 104 90 110 55.87 1.15 20
 Sulfate 277.7 10 250.0 32.84 98.0 90 110 276.3 0.515 20

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 23, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL- Atlanta

Dear Rhonda Quinn:

Order No: 1811D53

Analytical Environmental Services, Inc. received 6 samples on 11/14/2018 5:50:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144			ANALYSIS REQUESTED					Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers										
PHONE: 770-421-3400		EMAIL:			PRESERVATION (see codes)					REMARKS												
SAMPLED BY: D Howard, B Updyke		SIGNATURE: <i>Daniel Howard</i>			<table border="1"> <tr> <td>VOC list 8260</td> <td>Pest 8081A</td> <td>Nitrate 9056</td> <td>1st metals 6020</td> <td>As, Cr, Pb, Zn</td> <td>Diss metals 6020</td> <td>As, Cr, Pb, Zn</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					VOC list 8260	Pest 8081A	Nitrate 9056	1st metals 6020	As, Cr, Pb, Zn	Diss metals 6020	As, Cr, Pb, Zn						
VOC list 8260	Pest 8081A	Nitrate 9056	1st metals 6020	As, Cr, Pb, Zn	Diss metals 6020	As, Cr, Pb, Zn																
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)					REMARKS	Number of Containers									
		DATE	TIME				H	I	I	N	I											
1	TB-06	11/14/18	0900	X		W	X							2								
2	TW-5		1158	X		GW	X	X	X	X				7								
3	TW-6		1452	X		GW	X	X	X	X				7								
4	MW-105		0945	X		GW		X	X	X				5								
5	MW-106D		1405	X		GW	X	X	X	X				7								
6	MW-121		1625	X		GW	X	X	X	X				7								
7	Temp Blank																					
8																						
9																						
10																						
11																						
12																						
13																						
14																						
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION					RECEIPT									
1. Daniel Howard		11/14/18 1650		1. [Signature]		11-14 450		PROJECT NAME: BFEL Atlanta					Total # of Containers									
2. Blomquist		11-14 550		2. Anan Peters		11-14-18 17:50		PROJECT #: 6122080154					Turnaround Time (TAT) Request									
3.				3.				SITE ADDRESS: 1525 Pine St Atlanta GA					<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other									
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO:		INVOICE TO (IF DIFFERENT FROM ABOVE):		Rhonda Quinn					STATE PROGRAM (if any): GA									
Dissolved metals will be filtered by the lab		OUT: / / VIA: IN: / / VIA:		client FedEx UPS US mail <u>courier</u>		other: _____		QUOTE #: _____ PO#: _____					E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: I <input type="radio"/> II <input checked="" type="radio"/> III <input type="radio"/> IV <input type="radio"/>									

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-06
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018
Lab ID: 1811D53-001	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	270425	1	11/19/2018 19:55	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 19:55	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 19:55	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 19:55	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 19:55	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 19:55	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 19:55	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 19:55	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 19:55	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 19:55	JE
Surr: 4-Bromofluorobenzene	100	68-127		%REC	270425	1	11/19/2018 19:55	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270425	1	11/19/2018 19:55	JE
Surr: Toluene-d8	98.7	80.1-116		%REC	270425	1	11/19/2018 19:55	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-5
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 11:58:00 AM
Lab ID: 1811D53-002	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	270425	1	11/19/2018 23:13	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 23:13	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 23:13	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 23:13	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 23:13	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 23:13	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 23:13	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 23:13	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 23:13	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 23:13	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270425	1	11/19/2018 23:13	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270425	1	11/19/2018 23:13	JE
Surr: Toluene-d8	98.5	80.1-116		%REC	270425	1	11/19/2018 23:13	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-5
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 11:58:00 AM
Lab ID: 1811D53-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 21:01	JW
Copper	1.41	0.00200		mg/L	270256	1	11/15/2018 21:01	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 21:01	JW
Zinc	16.0	0.0500		mg/L	270256	5	11/16/2018 19:50	JW
ION SCAN SW9056A								
Nitrate	20	2.5		mg/L	R385163	10	11/15/2018 13:53	GO
Sulfate	550	10		mg/L	R385163	10	11/15/2018 13:53	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:43	KT
Copper	1.53	0.00200		mg/L	270411	1	11/19/2018 17:43	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:43	KT
Zinc	16.9	0.0200		mg/L	270411	2	11/20/2018 12:19	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/15/2018 12:08	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/15/2018 12:08	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/15/2018 12:08	UH
alpha-BHC	0.000082	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
beta-BHC	0.00099	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
delta-BHC	0.000082	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/15/2018 12:08	UH
gamma-BHC	0.00012	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/15/2018 12:08	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/15/2018 12:08	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/15/2018 12:08	UH
Surr: Decachlorobiphenyl	80.3	20.6-134		%REC	270193	1	11/15/2018 12:08	UH
Surr: Tetrachloro-m-xylene	89.1	37-128		%REC	270193	1	11/15/2018 12:08	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-6
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 2:52:00 PM
Lab ID: 1811D53-003	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	270425	1	11/19/2018 23:38	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 23:38	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 23:38	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 23:38	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 23:38	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 23:38	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 23:38	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 23:38	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 23:38	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 23:38	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/19/2018 23:38	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270425	1	11/19/2018 23:38	JE
Surr: Toluene-d8	98.8	80.1-116		%REC	270425	1	11/19/2018 23:38	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-6
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 2:52:00 PM
Lab ID: 1811D53-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 21:04	JW
Copper	0.349	0.00200		mg/L	270256	1	11/15/2018 21:04	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 21:04	JW
Zinc	21.6	0.0500		mg/L	270256	5	11/16/2018 19:54	JW
ION SCAN SW9056A								
Nitrate	18	2.5		mg/L	R385163	10	11/15/2018 14:24	GO
Sulfate	490	10		mg/L	R385163	10	11/15/2018 14:24	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:46	KT
Copper	0.447	0.0100		mg/L	270411	5	11/20/2018 12:22	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:46	KT
Zinc	21.3	0.0500		mg/L	270411	5	11/20/2018 12:22	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270193	1	11/15/2018 12:19	UH
4,4'-DDE	BRL	0.00010		mg/L	270193	1	11/15/2018 12:19	UH
4,4'-DDT	BRL	0.00010		mg/L	270193	1	11/15/2018 12:19	UH
alpha-BHC	0.0021	0.00010		mg/L	270193	2	11/15/2018 13:15	UH
alpha-Chlordane	BRL	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
beta-BHC	0.0015	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
delta-BHC	0.00035	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
Dieldrin	BRL	0.00010		mg/L	270193	1	11/15/2018 12:19	UH
gamma-BHC	0.00083	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
gamma-Chlordane	BRL	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
Heptachlor	BRL	0.000050		mg/L	270193	1	11/15/2018 12:19	UH
Methoxychlor	BRL	0.00050		mg/L	270193	1	11/15/2018 12:19	UH
Toxaphene	BRL	0.0030		mg/L	270193	1	11/15/2018 12:19	UH
Surr: Decachlorobiphenyl	79.1	20.6-134		%REC	270193	1	11/15/2018 12:19	UH
Surr: Tetrachloro-m-xylene	86.5	37-128		%REC	270193	1	11/15/2018 12:19	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-105
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 9:45:00 AM
Lab ID: 1811D53-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 21:17	JW
Copper	0.00358	0.00200		mg/L	270256	1	11/15/2018 21:17	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 21:17	JW
Zinc	0.0109	0.0100		mg/L	270256	1	11/15/2018 21:17	JW
ION SCAN SW9056A								
Nitrate	0.29	0.25		mg/L	R384739	1	11/13/2018 22:34	GO
Sulfate	140	10		mg/L	R385163	10	11/15/2018 14:39	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:49	KT
Copper	BRL	0.00200		mg/L	270411	1	11/19/2018 17:49	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:49	KT
Zinc	0.0218	0.0100		mg/L	270411	1	11/19/2018 17:49	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 11:53	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 11:53	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 11:53	UH
alpha-BHC	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
beta-BHC	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
delta-BHC	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 11:53	UH
gamma-BHC	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 11:53	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 11:53	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 11:53	UH
Surr: Decachlorobiphenyl	54.3	20.6-134		%REC	270308	1	11/16/2018 11:53	UH
Surr: Tetrachloro-m-xylene	80.7	37-128		%REC	270308	1	11/16/2018 11:53	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-106D
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 2:05:00 PM
Lab ID: 1811D53-005	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	270425	1	11/20/2018 00:02	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/20/2018 00:02	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/20/2018 00:02	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/20/2018 00:02	JE
Acetone	BRL	0.050		mg/L	270425	1	11/20/2018 00:02	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/20/2018 00:02	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/20/2018 00:02	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/20/2018 00:02	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/20/2018 00:02	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/20/2018 00:02	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270425	1	11/20/2018 00:02	JE
Surr: Dibromofluoromethane	96.8	84.4-122		%REC	270425	1	11/20/2018 00:02	JE
Surr: Toluene-d8	100	80.1-116		%REC	270425	1	11/20/2018 00:02	JE

Total Metals by ICP/MS SW6020B (SW3005A)

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

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-106D
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 2:05:00 PM
Lab ID: 1811D53-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 21:20	JW
Copper	0.00770	0.00200		mg/L	270256	1	11/15/2018 21:20	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 21:20	JW
Zinc	0.298	0.0100		mg/L	270256	1	11/15/2018 21:20	JW
ION SCAN SW9056A								
Nitrate	0.38	0.25		mg/L	R384739	1	11/13/2018 22:50	GO
Sulfate	280	10		mg/L	R385163	10	11/15/2018 14:54	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:52	KT
Copper	0.00535	0.00200		mg/L	270411	1	11/19/2018 17:52	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:52	KT
Zinc	0.286	0.0100		mg/L	270411	1	11/19/2018 17:52	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 12:04	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 12:04	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 12:04	UH
alpha-BHC	0.0054	0.00025		mg/L	270308	5	11/16/2018 17:51	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:04	UH
beta-BHC	0.0018	0.00025		mg/L	270308	5	11/16/2018 17:51	UH
delta-BHC	0.0067	0.00025		mg/L	270308	5	11/16/2018 17:51	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 12:04	UH
gamma-BHC	0.0032	0.00025		mg/L	270308	5	11/16/2018 17:51	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:04	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 12:04	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 12:04	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 12:04	UH
Surr: Decachlorobiphenyl	62.3	20.6-134		%REC	270308	1	11/16/2018 12:04	UH
Surr: Tetrachloro-m-xylene	71.8	37-128		%REC	270308	1	11/16/2018 12:04	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-121
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 4:25:00 PM
Lab ID: 1811D53-006	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	270425	1	11/20/2018 00:27	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/20/2018 00:27	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/20/2018 00:27	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/20/2018 00:27	JE
Acetone	BRL	0.050		mg/L	270425	1	11/20/2018 00:27	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/20/2018 00:27	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/20/2018 00:27	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/20/2018 00:27	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/20/2018 00:27	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/20/2018 00:27	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270425	1	11/20/2018 00:27	JE
Surr: Dibromofluoromethane	111	84.4-122		%REC	270425	1	11/20/2018 00:27	JE
Surr: Toluene-d8	97.2	80.1-116		%REC	270425	1	11/20/2018 00:27	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 23-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-121
Project Name: BFEL- Atlanta	Collection Date: 11/14/2018 4:25:00 PM
Lab ID: 1811D53-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270256	1	11/15/2018 21:23	JW
Copper	0.0147	0.00200		mg/L	270256	1	11/15/2018 21:23	JW
Lead	BRL	0.00100		mg/L	270256	1	11/15/2018 21:23	JW
Zinc	0.0287	0.0100		mg/L	270256	1	11/15/2018 21:23	JW
ION SCAN SW9056A								
Nitrate	0.85	0.25		mg/L	R384739	1	11/13/2018 23:05	GO
Sulfate	53	1.0		mg/L	R384739	1	11/13/2018 23:05	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270411	1	11/19/2018 17:55	KT
Copper	0.00802	0.00200		mg/L	270411	1	11/19/2018 17:55	KT
Lead	BRL	0.00100		mg/L	270411	1	11/19/2018 17:55	KT
Zinc	0.0183	0.0100		mg/L	270411	1	11/19/2018 17:55	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 12:15	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 12:15	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 12:15	UH
alpha-BHC	0.00024	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
beta-BHC	0.00016	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
delta-BHC	0.00015	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 12:15	UH
gamma-BHC	0.000071	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 12:15	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 12:15	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 12:15	UH
Surr: Decachlorobiphenyl	63.6	20.6-134		%REC	270308	1	11/16/2018 12:15	UH
Surr: Tetrachloro-m-xylene	79.3	37-128		%REC	270308	1	11/16/2018 12:15	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-5				Lab ID: 1811D53-002			
Collection Date: 11/14/2018 11:58:00 AM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	1.41		0.00186	0.00200	mg/L	270256	1
Zinc	16.0		0.00840	0.0500	mg/L	270256	5
ION SCAN SW9056A							
Nitrate	20		0.55	2.5	mg/L	R385163	10
Sulfate	550		1.2	10	mg/L	R385163	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	1.53		0.00186	0.00200	mg/L	270411	1
Zinc	16.9		0.00336	0.0200	mg/L	270411	2
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.000082		0.000010	0.000050	mg/L	270193	1
beta-BHC	0.000099		0.000004	0.000050	mg/L	270193	1
delta-BHC	0.000082		0.000009	0.000050	mg/L	270193	1
gamma-BHC	0.00012		0.000005	0.000050	mg/L	270193	1
Client Sample ID: TW-6				Lab ID: 1811D53-003			
Collection Date: 11/14/2018 2:52:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.349		0.00186	0.00200	mg/L	270256	1
Zinc	21.6		0.00840	0.0500	mg/L	270256	5
ION SCAN SW9056A							
Nitrate	18		0.55	2.5	mg/L	R385163	10
Sulfate	490		1.2	10	mg/L	R385163	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.447		0.00930	0.0100	mg/L	270411	5
Zinc	21.3		0.00840	0.0500	mg/L	270411	5
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0021		0.000020	0.00010	mg/L	270193	2
beta-BHC	0.0015		0.000004	0.000050	mg/L	270193	1
delta-BHC	0.00035		0.000009	0.000050	mg/L	270193	1
gamma-BHC	0.00083		0.000005	0.000050	mg/L	270193	1
Client Sample ID: MW-105				Lab ID: 1811D53-004			
Collection Date: 11/14/2018 9:45:00 AM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00358		0.00186	0.00200	mg/L	270256	1
Zinc	0.0109		0.00168	0.0100	mg/L	270256	1
ION SCAN SW9056A							
Nitrate	0.29		0.055	0.25	mg/L	R384739	1
Sulfate	140		1.2	10	mg/L	R385163	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.0218		0.00168	0.0100	mg/L	270411	1
Client Sample ID: MW-106D				Lab ID: 1811D53-005			
Collection Date: 11/14/2018 2:05:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-106D				Lab ID: 1811D53-005			
Collection Date: 11/14/2018 2:05:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00770		0.00186	0.00200	mg/L	270256	1
Zinc	0.298		0.00168	0.0100	mg/L	270256	1
ION SCAN SW9056A							
Nitrate	0.38		0.055	0.25	mg/L	R384739	1
Sulfate	280		1.2	10	mg/L	R385163	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00535		0.00186	0.00200	mg/L	270411	1
Zinc	0.286		0.00168	0.0100	mg/L	270411	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0054		0.000050	0.00025	mg/L	270308	5
beta-BHC	0.0018		0.000019	0.00025	mg/L	270308	5
delta-BHC	0.0067		0.000046	0.00025	mg/L	270308	5
gamma-BHC	0.0032		0.000026	0.00025	mg/L	270308	5
Client Sample ID: MW-121				Lab ID: 1811D53-006			
Collection Date: 11/14/2018 4:25:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0147		0.00186	0.00200	mg/L	270256	1
Zinc	0.0287		0.00168	0.0100	mg/L	270256	1
ION SCAN SW9056A							
Nitrate	0.85		0.055	0.25	mg/L	R384739	1
Sulfate	53		0.12	1.0	mg/L	R384739	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00802		0.00186	0.00200	mg/L	270411	1
Zinc	0.0183		0.00168	0.0100	mg/L	270411	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00024		0.000010	0.000050	mg/L	270308	1
beta-BHC	0.00016		0.000004	0.000050	mg/L	270308	1
delta-BHC	0.00015		0.000009	0.000050	mg/L	270308	1
gamma-BHC	0.000071		0.000005	0.000050	mg/L	270308	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Lab Order: 1811D53

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811D53-001A	TB-06	11/14/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811D53-002A	TW-5	11/14/2018 11:58:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811D53-002B	TW-5	11/14/2018 11:58:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/15/2018
1811D53-002C	TW-5	11/14/2018 11:58:00AM	Groundwater	ION SCAN			11/15/2018
1811D53-002D	TW-5	11/14/2018 11:58:00AM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811D53-002D	TW-5	11/14/2018 11:58:00AM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/20/2018
1811D53-002E	TW-5	11/14/2018 11:58:00AM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018
1811D53-002E	TW-5	11/14/2018 11:58:00AM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/16/2018
1811D53-003A	TW-6	11/14/2018 2:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811D53-003B	TW-6	11/14/2018 2:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/14/2018 11:00:00AM	11/15/2018
1811D53-003C	TW-6	11/14/2018 2:52:00PM	Groundwater	ION SCAN			11/15/2018
1811D53-003D	TW-6	11/14/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811D53-003D	TW-6	11/14/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/20/2018
1811D53-003E	TW-6	11/14/2018 2:52:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018
1811D53-003E	TW-6	11/14/2018 2:52:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/16/2018
1811D53-004A	MW-105	11/14/2018 9:45:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811D53-004B	MW-105	11/14/2018 9:45:00AM	Groundwater	ION SCAN			11/13/2018
1811D53-004B	MW-105	11/14/2018 9:45:00AM	Groundwater	ION SCAN			11/15/2018
1811D53-004C	MW-105	11/14/2018 9:45:00AM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811D53-004D	MW-105	11/14/2018 9:45:00AM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018
1811D53-005A	MW-106D	11/14/2018 2:05:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/20/2018
1811D53-005B	MW-106D	11/14/2018 2:05:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811D53-005C	MW-106D	11/14/2018 2:05:00PM	Groundwater	ION SCAN			11/13/2018
1811D53-005C	MW-106D	11/14/2018 2:05:00PM	Groundwater	ION SCAN			11/15/2018
1811D53-005D	MW-106D	11/14/2018 2:05:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811D53-005E	MW-106D	11/14/2018 2:05:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018
1811D53-006A	MW-121	11/14/2018 4:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/20/2018
1811D53-006B	MW-121	11/14/2018 4:25:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811D53-006C	MW-121	11/14/2018 4:25:00PM	Groundwater	ION SCAN			11/15/2018

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Lab Order: 1811D53

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811D53-006D	MW-121	11/14/2018 4:25:00PM	Groundwater	Dissolved Metals by ICP/MS		11/19/2018 11:21:00AM	11/19/2018
1811D53-006E	MW-121	11/14/2018 4:25:00PM	Groundwater	Total Metals by ICP/MS		11/15/2018 10:10:00AM	11/15/2018

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: MB-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589114							
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	0.000269	0	0.0005		53.7	20.6	134				
Surr: Tetrachloro-m-xylene	0.000328	0	0.0005		65.5	37	128				

Sample ID: LCS-270193	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589115							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001044	0.00010	0.0010		104	61	127				
Dieldrin	0.000949	0.00010	0.0010		94.9	66.8	130				
gamma-BHC	0.000975	0.000050	0.0010		97.5	70.2	129				
Heptachlor	0.000849	0.000050	0.0010		84.9	65.1	131				
Surr: Decachlorobiphenyl	0.000292	0	0.0005		58.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.000339	0	0.0005		67.8	37	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270193

Sample ID: 1811A80-006BMS	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589137							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001074	0.00010	0.0010		107	42.4	138				
Dieldrin	0.000995	0.00010	0.0010	0.00001870	97.6	44.9	138				
gamma-BHC	0.001038	0.000050	0.0010	0.00004134	99.6	56.5	137				
Heptachlor	0.000913	0.000050	0.0010		91.3	43.6	134				
Surr: Decachlorobiphenyl	0.000441	0	0.0005		88.2	20.6	134				
Surr: Tetrachloro-m-xylene	0.000377	0	0.0005		75.4	37	128				

Sample ID: 1811A80-006BMSD	Client ID:	Units: mg/L	Prep Date: 11/14/2018	Run No: 384667							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270193	Analysis Date: 11/14/2018	Seq No: 8589138							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001108	0.00010	0.0010		111	42.4	138	0.001074	3.08	20	
Dieldrin	0.001004	0.00010	0.0010	0.00001870	98.5	44.9	138	0.0009950	0.877	20	
gamma-BHC	0.001031	0.000050	0.0010	0.00004134	99.0	56.5	137	0.001038	0.620	20	
Heptachlor	0.000844	0.000050	0.0010		84.4	43.6	134	0.0009130	7.86	21.3	
Surr: Decachlorobiphenyl	0.000436	0	0.0005		87.3	20.6	134	0.0004412	0	0	
Surr: Tetrachloro-m-xylene	0.000322	0	0.0005		64.4	37	128	0.0003770	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270256

Sample ID: MB-270256	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593685							
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-270256	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593686							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1066	0.00500	0.1000		107	80	120				
Copper	0.1064	0.00200	0.1000		106	80	120				
Lead	0.1035	0.00100	0.1000		103	80	120				
Zinc	0.1049	0.0100	0.1000		105	80	120				

Sample ID: 1811C03-002EMS	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593690							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09851	0.00500	0.1000		98.5	75	125				
Copper	0.8284	0.00200	0.1000	0.7432	85.3	75	125				
Lead	0.09990	0.00100	0.1000	0.002481	97.4	75	125				
Zinc	2.098	0.0100	0.1000	2.055	43.7	75	125				S

Sample ID: 1811C03-002EMSD	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1008	0.00500	0.1000		101	75	125	0.09851	2.30	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270256

Sample ID: 1811C03-002EMSD	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384869							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270256	Analysis Date: 11/15/2018	Seq No: 8593691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.8389	0.00200	0.1000	0.7432	95.8	75	125	0.8284	1.26	20	
Lead	0.1011	0.00100	0.1000	0.002481	98.6	75	125	0.09990	1.22	20	
Zinc	2.145	0.0100	0.1000	2.055	90.1	75	125	2.098	2.19	20	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270308

Sample ID: MB-270308	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593261							
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	0.000374	0	0.0005		74.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.000409	0	0.0005		81.8	37	128				

Sample ID: LCS-270308	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593262							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000989	0.00010	0.0010		98.9	61	127				
Dieldrin	0.000914	0.00010	0.0010		91.4	66.8	130				
gamma-BHC	0.000929	0.000050	0.0010		92.9	70.2	129				
Heptachlor	0.000954	0.000050	0.0010		95.4	65.1	131				
Surr: Decachlorobiphenyl	0.000408	0	0.0005		81.5	20.6	134				
Surr: Tetrachloro-m-xylene	0.000392	0	0.0005		78.5	37	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270308

Sample ID: 1811E99-007AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593276							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000958	0.00010	0.0010		95.8	42.4	138				
Dieldrin	0.000856	0.00010	0.0010		85.6	44.9	138				
gamma-BHC	0.000849	0.000050	0.0010		84.9	56.5	137				
Heptachlor	0.000898	0.000050	0.0010		89.8	43.6	134				
Surr: Decachlorobiphenyl	0.000381	0	0.0005		76.3	20.6	134				
Surr: Tetrachloro-m-xylene	0.000374	0	0.0005		74.8	37	128				

Sample ID: 1811E99-007AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593329							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000914	0.00010	0.0010		91.4	42.4	138	0.0009579	4.70	20	
Dieldrin	0.000815	0.00010	0.0010		81.5	44.9	138	0.0008560	4.86	20	
gamma-BHC	0.000858	0.000050	0.0010		85.8	56.5	137	0.0008490	1.02	20	
Heptachlor	0.000811	0.000050	0.0010		81.1	43.6	134	0.0008978	10.2	21.3	
Surr: Decachlorobiphenyl	0.000363	0	0.0005		72.6	20.6	134	0.0003814	0	0	
Surr: Tetrachloro-m-xylene	0.000330	0	0.0005		65.9	37	128	0.0003741	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270411

Sample ID: MB-270411	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597924							
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-270411	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09501	0.00500	0.1000		95.0	80	120				
Copper	0.09531	0.00200	0.1000		95.3	80	120				
Lead	0.09317	0.00100	0.1000		93.2	80	120				
Zinc	0.09520	0.0100	0.1000	0.003368	91.8	80	120				

Sample ID: 1811C03-002DMS	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1000	0.00500	0.1000		100	75	125				
Copper	0.8658	0.00200	0.1000	0.7654	100	75	125				
Lead	0.09485	0.00100	0.1000	0.002287	92.6	75	125				
Zinc	2.171	0.0100	0.1000	2.066	105	75	125				

Sample ID: 1811C03-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09907	0.00500	0.1000		99.1	75	125	0.1000	0.947	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270411

Sample ID: 1811C03-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 384971							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270411	Analysis Date: 11/19/2018	Seq No: 8597928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.8522	0.00200	0.1000	0.7654	86.8	75	125	0.8658	1.59	20	
Lead	0.09606	0.00100	0.1000	0.002287	93.8	75	125	0.09485	1.28	20	
Zinc	2.154	0.0100	0.1000	2.066	88.0	75	125	2.171	0.794	20	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05198	0	0.0500		104	68	127				
Surr: Dibromofluoromethane	0.05206	0	0.0500		104	84.4	122				
Surr: Toluene-d8	0.04969	0	0.0500		99.4	80.1	116				

Sample ID: LCS-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384986							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/19/2018	Seq No: 8599017							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.05976	0.0050	0.0500		120	69	136				
Benzene	0.05210	0.0050	0.0500		104	73.7	126				
Chlorobenzene	0.05255	0.0050	0.0500		105	73.5	124				
Toluene	0.05441	0.0050	0.0500		109	76.8	125				
Trichloroethene	0.05309	0.0050	0.0500		106	70.9	124				
Surr: 4-Bromofluorobenzene	0.04962	0	0.0500		99.2	68	127				
Surr: Dibromofluoromethane	0.04793	0	0.0500		95.9	84.4	122				
Surr: Toluene-d8	0.05018	0	0.0500		100	80.1	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: 1811F10-003AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.103	0.25	2.500		124	65.7	143				
Benzene	2.848	0.25	2.500	0.1285	109	66.1	137				
Chlorobenzene	3.724	0.25	2.500	1.124	104	70.9	132				
Toluene	2.574	0.25	2.500		103	63.8	141				
Trichloroethene	2.664	0.25	2.500		107	70.6	128				
Surr: 4-Bromofluorobenzene	2.470	0	2.500		98.8	68	127				
Surr: Dibromofluoromethane	2.678	0	2.500		107	84.4	122				
Surr: Toluene-d8	2.472	0	2.500		98.9	80.1	116				

Sample ID: 1811F10-003AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.074	0.25	2.500		123	65.7	143	3.103	0.955	17.7	
Benzene	2.783	0.25	2.500	0.1285	106	66.1	137	2.848	2.31	20	
Chlorobenzene	3.624	0.25	2.500	1.124	100	70.9	132	3.724	2.72	20	
Toluene	2.533	0.25	2.500		101	63.8	141	2.574	1.63	20	
Trichloroethene	2.552	0.25	2.500		102	70.6	128	2.664	4.27	20	
Surr: 4-Bromofluorobenzene	2.498	0	2.500		99.9	68	127	2.470	0	0	
Surr: Dibromofluoromethane	2.696	0	2.500		108	84.4	122	2.678	0	0	
Surr: Toluene-d8	2.503	0	2.500		100	80.1	116	2.472	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: R384739

Sample ID: MB-R384739	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/13/2018	Seq No: 8599366							
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-R384739	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/13/2018	Seq No: 8599365							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 4.910 0.25 5.000 98.2 90 110
 Sulfate 24.57 1.0 25.00 98.3 90 110

Sample ID: 1811C88-001FMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599393							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.047 0.25 5.000 1.715 107 90 110
 Sulfate 28.94 1.0 25.00 4.226 98.9 90 110

Sample ID: 1811C88-007GMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599395							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.127 0.25 5.000 103 90 110
 Sulfate 24.45 1.0 25.00 0.1606 97.2 90 110

Sample ID: 1811C88-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.068 0.25 5.000 1.715 107 90 110 7.047 0.301 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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: R384739

Sample ID: 1811C88-001FMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384739							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384739	Analysis Date: 11/14/2018	Seq No: 8599394							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	29.07	1.0	25.00	4.226	99.4	90	110	28.94	0.420	20	
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Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: R385163

Sample ID: MB-R385163	Client ID:	Units: mg/L	Prep Date:	Run No: 385163							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601231							
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-R385163	Client ID:	Units: mg/L	Prep Date:	Run No: 385163							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.110 0.25 5.000 102 90 110
 Sulfate 24.81 1.0 25.00 99.2 90 110

Sample ID: 1811D65-003EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385163							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601258							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.380 0.25 5.000 0.4486 98.6 90 110
 Sulfate 24.87 1.0 25.00 0.5750 97.2 90 110

Sample ID: 1811D65-004EMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385163							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601260							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 8.522 0.25 5.000 3.265 105 90 110
 Sulfate 33.54 1.0 25.00 9.261 97.1 90 110

Sample ID: 1811D65-003EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385163							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601259							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.398 0.25 5.000 0.4486 99.0 90 110 5.380 0.325 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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811D53

ANALYTICAL QC SUMMARY REPORT

BatchID: R385163

Sample ID: 1811D65-003EMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385163
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385163	Analysis Date: 11/15/2018	Seq No: 8601259

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.97	1.0	25.00	0.5750	97.6	90	110	24.87	0.395	20	

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 26, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL - Atlanta

Dear Rhonda Quinn:

Order No: 1811F10

Analytical Environmental Services, Inc. received 11 samples on 11/15/2018 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



COMPANY: Wood E+IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: 770-421-3400		EMAIL:					PRESERVATION (see codes)										REMARKS		
SAMPLED BY: D Howard, B Updyke, R Greeson		SIGNATURE: Daniel Howard					<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 5px;">VOC 1:57 8:26</div> <div style="margin-bottom: 5px;">Pest 8081A</div> <div style="margin-bottom: 5px;">Nitrate 9056</div> <div style="margin-bottom: 5px;">Sulfate 9056</div> <div style="margin-bottom: 5px;">Total Metals</div> <div style="margin-bottom: 5px;">As, Cu, Pb, Zn, Cd, Ni</div> <div style="margin-bottom: 5px;">Diss. Met. 2:15</div> <div style="margin-bottom: 5px;">As, Cu, Pb, Zn, Cd, Ni</div> </div>												
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	H ⁺	I	N	I									
1	TB-07	11/15/18	0900	X		W	X												2
2	TW-7		1227	X		GW	X	X	X	X	X								7
3	TW-8		1452	X		GW	X	X	X	X	X								7
4	DUP-2		1200	X		GW		X											2
5	MW-113		1218	X		GW	X	X	X	X	X								7
6	DUP-3		1200	X		GW			X										1
7	MW-114		1452	X		GW	X	X	X	X	X								7
8	MW-115		1125	X		GW	X	X	X	X	X								7
9	MW-111		1435	X		GW	X	X	X	X	X								7
10	MW-109		1540	X		GW	X	X	X	X	X								7
11	DUP-4		1200	X		GW				X	X								2
12	Temp Blank																		
13																			
14																			
RELINQUISHED BY: Daniel Howard		DATE/TIME: 11/15/18 1716		RECEIVED BY: Emily Williams		DATE/TIME: 11-15-18 5:18		PROJECT INFORMATION										RECEIPT	
3		11-15-18		3		6:00pm		PROJECT NAME: BFEL Atlanta										Total # of Containers	
								PROJECT #: 6122080154										Turnaround Time (TAT) Request	
								SITE ADDRESS: 1525 Pine St NW Atlanta, GA										<input checked="" type="checkbox"/> Standard	
								SEND REPORT TO: Rhonda Quinn										<input type="checkbox"/> 2 Business Day Rush	
								INVOICE TO (IF DIFFERENT FROM ABOVE):										<input type="checkbox"/> Next Business Day Rush	
								QUOTE #:										PO#:	
								STATE PROGRAM (if any): GA										<input checked="" type="checkbox"/> E-mail? <input type="checkbox"/> Fax?	
								SPECIAL INSTRUCTIONS/COMMENTS: Lab will filter dissolved metals										DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
								SHIPMENT METHOD											
								OUT: / / VIA:											
								IN: / / VIA:											
								client FedEx UPS US mail courier											
								other:											

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Client: Wood Environment & Infrastructure
Project: BFEL - Atlanta
Lab ID: 1811F10

Case Narrative

On Hold Analysis:

Sample MW-115 was placed on hold at the request of Rhonda Quinn with WOOD via e-mail on 11/20/18.

Ion Scan Analysis by Method SW 9056:

Due to sample matrix, samples 1811F10-005C, -006A required dilution during analysis resulting in elevated reporting limits.

Total Metals Analysis by Method 6020B:

Due to sample matrix, samples 1811F10-002D and -005D required dilution during preparation and/or analysis resulting in elevated reporting limits.

Dissolved Metals Analysis by Method 6020B:

Due to sample matrix, samples 1811F10-002E and -005E required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-07
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018
Lab ID: 1811F10-001	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	270425	1	11/19/2018 20:19	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 20:19	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 20:19	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 20:19	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 20:19	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 20:19	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 20:19	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 20:19	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 20:19	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 20:19	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/19/2018 20:19	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270425	1	11/19/2018 20:19	JE
Surr: Toluene-d8	98.1	80.1-116		%REC	270425	1	11/19/2018 20:19	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: TW-7
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:27:00 PM
Lab ID: 1811F10-002	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	270425	1	11/19/2018 20:44	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 20:44	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 20:44	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 20:44	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 20:44	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 20:44	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 20:44	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 20:44	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 20:44	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 20:44	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270425	1	11/19/2018 20:44	JE
Surr: Dibromofluoromethane	97.4	84.4-122		%REC	270425	1	11/19/2018 20:44	JE
Surr: Toluene-d8	101	80.1-116		%REC	270425	1	11/19/2018 20:44	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-7
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:27:00 PM
Lab ID: 1811F10-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.500		mg/L	270441	100	11/21/2018 21:46	KT
Copper	153	0.200		mg/L	270441	100	11/21/2018 21:46	KT
Lead	BRL	0.100		mg/L	270441	100	11/21/2018 21:46	KT
Zinc	326	1.00		mg/L	270441	100	11/21/2018 21:46	KT
ION SCAN SW9056A								
Nitrate	110	12		mg/L	R385165	50	11/15/2018 21:27	GO
Sulfate	3300	50		mg/L	R385165	50	11/15/2018 21:27	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.500		mg/L	270519	100	11/23/2018 21:26	KT
Copper	41.8	0.200		mg/L	270519	100	11/23/2018 21:26	KT
Lead	BRL	0.100		mg/L	270519	100	11/23/2018 21:26	KT
Zinc	89.3	1.00		mg/L	270519	100	11/23/2018 21:26	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 12:26	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 12:26	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 12:26	UH
alpha-BHC	0.00050	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
beta-BHC	0.0019	0.00010		mg/L	270308	2	11/16/2018 18:02	UH
delta-BHC	0.00023	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 12:26	UH
gamma-BHC	0.00049	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 12:26	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 12:26	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 12:26	UH
Surr: Decachlorobiphenyl	61.1	20.6-134		%REC	270308	1	11/16/2018 12:26	UH
Surr: Tetrachloro-m-xylene	73.4	37-128		%REC	270308	1	11/16/2018 12:26	UH

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-8
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:52:00 PM
Lab ID: 1811F10-003	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	270425	1	11/20/2018 19:39	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,2,4-Trichlorobenzene	0.12	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/20/2018 19:39	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/20/2018 19:39	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/20/2018 19:39	JE
Acetone	BRL	0.050		mg/L	270425	1	11/20/2018 19:39	JE
Benzene	0.13	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Chlorobenzene	1.1	0.25		mg/L	270425	50	11/20/2018 02:06	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/20/2018 19:39	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/20/2018 19:39	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/20/2018 19:39	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/20/2018 19:39	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/20/2018 19:39	JE
Surr: 4-Bromofluorobenzene	92.3	68-127		%REC	270425	1	11/20/2018 19:39	JE
Surr: 4-Bromofluorobenzene	99.3	68-127		%REC	270425	50	11/20/2018 02:06	JE
Surr: Dibromofluoromethane	103	84.4-122		%REC	270425	1	11/20/2018 19:39	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270425	50	11/20/2018 02:06	JE
Surr: Toluene-d8	104	80.1-116		%REC	270425	1	11/20/2018 19:39	JE

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-8
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:52:00 PM
Lab ID: 1811F10-003	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	98.6	80.1-116		%REC	270425	50	11/20/2018 02:06	JE
Total Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	0.119	0.00500		mg/L	270441	1	11/21/2018 14:22	KT
Copper	0.165	0.00200		mg/L	270441	1	11/21/2018 14:22	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 14:22	KT
Zinc	1.26	0.0100		mg/L	270441	1	11/21/2018 14:22	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385165	1	11/15/2018 21:42	GO
Sulfate	1600	20		mg/L	R385209	20	11/16/2018 12:29	GO
Dissolved Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	BRL	0.00500		mg/L	270519	1	11/23/2018 21:35	KT
Copper	0.155	0.00200		mg/L	270519	1	11/21/2018 20:16	KT
Lead	BRL	0.00100		mg/L	270519	1	11/23/2018 21:35	KT
Zinc	0.710	0.0100		mg/L	270519	1	11/23/2018 21:35	KT
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)				
4,4'-DDD	0.0054	0.0010		mg/L	270308	10	11/16/2018 16:32	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 12:37	UH
4,4'-DDT	0.0048	0.0010		mg/L	270308	10	11/16/2018 16:32	UH
alpha-BHC	0.47	0.050		mg/L	270308	1000	11/16/2018 15:59	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:37	UH
beta-BHC	0.051	0.010		mg/L	270308	200	11/16/2018 13:56	UH
delta-BHC	1.3	0.050		mg/L	270308	1000	11/16/2018 15:59	UH
Dieldrin	0.0048	0.0010		mg/L	270308	10	11/16/2018 16:32	UH
gamma-BHC	1.1	0.050		mg/L	270308	1000	11/16/2018 15:59	UH
gamma-Chlordane	0.0012	0.000050		mg/L	270308	1	11/16/2018 12:37	UH
Heptachlor	BRL	0.00050		mg/L	270308	10	11/16/2018 16:32	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 12:37	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 12:37	UH
Surr: Decachlorobiphenyl	66.6	20.6-134		%REC	270308	1	11/16/2018 12:37	UH
Surr: Tetrachloro-m-xylene	934	37-128	S	%REC	270308	1	11/16/2018 12:37	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-2
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:00:00 PM
Lab ID: 1811F10-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
4,4'-DDD	0.0056	0.0010		mg/L	270308	10	11/16/2018 16:43	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 12:49	UH
4,4'-DDT	0.0065	0.0010		mg/L	270308	10	11/16/2018 16:43	UH
alpha-BHC	0.49	0.050		mg/L	270308	1000	11/16/2018 16:21	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 12:49	UH
beta-BHC	0.054	0.010		mg/L	270308	200	11/16/2018 16:10	UH
delta-BHC	1.4	0.050		mg/L	270308	1000	11/16/2018 16:21	UH
Dieldrin	0.0045	0.0010		mg/L	270308	10	11/16/2018 16:43	UH
gamma-BHC	1.2	0.050		mg/L	270308	1000	11/16/2018 16:21	UH
gamma-Chlordane	0.0012	0.000050		mg/L	270308	1	11/16/2018 12:49	UH
Heptachlor	BRL	0.00050		mg/L	270308	10	11/16/2018 16:43	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 12:49	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 12:49	UH
Surr: Decachlorobiphenyl	62.8	20.6-134		%REC	270308	1	11/16/2018 12:49	UH
Surr: Tetrachloro-m-xylene	950	37-128	S	%REC	270308	1	11/16/2018 12:49	UH

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-113
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:18:00 PM
Lab ID: 1811F10-005	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	270425	1	11/19/2018 21:09	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 21:09	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 21:09	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 21:09	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 21:09	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 21:09	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
cis-1,2-Dichloroethene	0.063	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 21:09	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 21:09	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Trichloroethene	0.060	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 21:09	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 21:09	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/19/2018 21:09	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270425	1	11/19/2018 21:09	JE
Surr: Toluene-d8	96.7	80.1-116		%REC	270425	1	11/19/2018 21:09	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-113
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:18:00 PM
Lab ID: 1811F10-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.100		mg/L	270441	20	11/21/2018 21:49	KT
Copper	12.1	0.0400		mg/L	270441	20	11/21/2018 21:49	KT
Lead	BRL	0.0200		mg/L	270441	20	11/21/2018 21:49	KT
Zinc	83.4	0.200		mg/L	270441	20	11/21/2018 21:49	KT
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R385165	50	11/15/2018 21:57	GO
Sulfate	1300	50		mg/L	R385165	50	11/15/2018 21:57	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.100		mg/L	270519	20	11/23/2018 21:38	KT
Copper	12.5	0.0400		mg/L	270519	20	11/23/2018 21:38	KT
Lead	BRL	0.0200		mg/L	270519	20	11/23/2018 21:38	KT
Zinc	86.0	0.200		mg/L	270519	20	11/23/2018 21:38	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 13:00	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 13:00	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 13:00	UH
alpha-BHC	0.00041	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
beta-BHC	0.00060	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
delta-BHC	0.00039	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 13:00	UH
gamma-BHC	0.00061	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 13:00	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 13:00	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 13:00	UH
Surr: Decachlorobiphenyl	68.8	20.6-134		%REC	270308	1	11/16/2018 13:00	UH
Surr: Tetrachloro-m-xylene	83.3	37-128		%REC	270308	1	11/16/2018 13:00	UH

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-3
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:00:00 PM
Lab ID: 1811F10-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R385165	50	11/15/2018 22:12	GO
Sulfate	1000	50		mg/L	R385165	50	11/15/2018 22:12	GO

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-114
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:52:00 PM
Lab ID: 1811F10-007	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	270425	1	11/19/2018 21:34	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 21:34	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 21:34	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 21:34	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 21:34	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 21:34	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 21:34	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 21:34	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 21:34	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 21:34	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270425	1	11/19/2018 21:34	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270425	1	11/19/2018 21:34	JE
Surr: Toluene-d8	98.8	80.1-116		%REC	270425	1	11/19/2018 21:34	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-114
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:52:00 PM
Lab ID: 1811F10-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 14:28	KT
Copper	1.68	0.00200		mg/L	270441	1	11/21/2018 14:28	KT
Lead	0.00126	0.00100		mg/L	270441	1	11/21/2018 14:28	KT
Zinc	8.13	0.0100		mg/L	270441	1	11/21/2018 14:28	KT
ION SCAN SW9056A								
Nitrate	21	12		mg/L	R385165	50	11/15/2018 22:28	GO
Sulfate	430	50		mg/L	R385165	50	11/15/2018 22:28	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/23/2018 21:42	KT
Copper	1.66	0.00200		mg/L	270519	1	11/21/2018 20:22	KT
Lead	BRL	0.00100		mg/L	270519	1	11/23/2018 21:42	KT
Zinc	8.29	0.0100		mg/L	270519	1	11/23/2018 21:42	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 13:11	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 13:11	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 13:11	UH
alpha-BHC	0.00029	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
beta-BHC	0.0022	0.00010		mg/L	270308	2	11/16/2018 18:13	UH
delta-BHC	0.00034	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 13:11	UH
gamma-BHC	0.00036	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 13:11	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 13:11	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 13:11	UH
Surr: Decachlorobiphenyl	67.9	20.6-134		%REC	270308	1	11/16/2018 13:11	UH
Surr: Tetrachloro-m-xylene	78.4	37-128		%REC	270308	1	11/16/2018 13:11	UH

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-111
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:35:00 PM
Lab ID: 1811F10-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 22:23	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 22:23	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 22:23	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 22:23	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Chlorobenzene	0.094	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 22:23	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 22:23	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 22:23	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 22:23	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 22:23	JE
Surr: 4-Bromofluorobenzene	99.5	68-127		%REC	270425	1	11/19/2018 22:23	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270425	1	11/19/2018 22:23	JE
Surr: Toluene-d8	100	80.1-116		%REC	270425	1	11/19/2018 22:23	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-111
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 2:35:00 PM
Lab ID: 1811F10-009	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 14:41	KT
Copper	0.107	0.00200		mg/L	270441	1	11/21/2018 14:41	KT
Lead	0.00540	0.00100		mg/L	270441	1	11/21/2018 14:41	KT
Zinc	5.44	0.0100		mg/L	270441	1	11/21/2018 14:41	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385165	1	11/15/2018 22:58	GO
Sulfate	370	10		mg/L	R385209	10	11/16/2018 12:44	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 20:35	KT
Copper	0.0529	0.00200		mg/L	270519	1	11/21/2018 20:35	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:35	KT
Zinc	5.59	0.0100		mg/L	270519	1	11/23/2018 21:45	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 13:34	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 13:34	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 13:34	UH
alpha-BHC	0.023	0.0020		mg/L	270308	40	11/16/2018 18:24	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:34	UH
beta-BHC	0.0058	0.0020		mg/L	270308	40	11/16/2018 18:24	UH
delta-BHC	0.048	0.0020		mg/L	270308	40	11/16/2018 18:24	UH
Dieldrin	0.00011	0.00010		mg/L	270308	1	11/16/2018 13:34	UH
gamma-BHC	0.020	0.0020		mg/L	270308	40	11/16/2018 18:24	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:34	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 13:34	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 13:34	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 13:34	UH
Surr: Decachlorobiphenyl	62.8	20.6-134		%REC	270308	1	11/16/2018 13:34	UH
Surr: Tetrachloro-m-xylene	93.9	37-128		%REC	270308	1	11/16/2018 13:34	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-109
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 3:40:00 PM
Lab ID: 1811F10-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
1,4-Dioxane	BRL	0.15		mg/L	270425	1	11/19/2018 22:48	JE
2-Butanone	BRL	0.050		mg/L	270425	1	11/19/2018 22:48	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270425	1	11/19/2018 22:48	JE
Acetone	BRL	0.050		mg/L	270425	1	11/19/2018 22:48	JE
Benzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Carbon disulfide	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Chlorobenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Chloroethane	BRL	0.010		mg/L	270425	1	11/19/2018 22:48	JE
Chloroform	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Chloromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Cyclohexane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Ethylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270425	1	11/19/2018 22:48	JE
Isopropylbenzene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Methylene chloride	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Naphthalene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Styrene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Tetrachloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Tetrahydrofuran	BRL	0.010		mg/L	270425	1	11/19/2018 22:48	JE
Toluene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Trichloroethene	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Vinyl chloride	BRL	0.0020		mg/L	270425	1	11/19/2018 22:48	JE
Xylenes, Total	BRL	0.0050		mg/L	270425	1	11/19/2018 22:48	JE
Surr: 4-Bromofluorobenzene	99.9	68-127		%REC	270425	1	11/19/2018 22:48	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270425	1	11/19/2018 22:48	JE
Surr: Toluene-d8	97.9	80.1-116		%REC	270425	1	11/19/2018 22:48	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-109
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 3:40:00 PM
Lab ID: 1811F10-010	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.0617	0.00500		mg/L	270441	1	11/21/2018 14:44	KT
Copper	0.244	0.00200		mg/L	270441	1	11/21/2018 14:44	KT
Lead	0.827	0.00100		mg/L	270441	1	11/21/2018 14:44	KT
Zinc	40.3	0.100		mg/L	270441	10	11/21/2018 22:08	KT
ION SCAN SW9056A								
Nitrate	2.0	0.25		mg/L	R385165	1	11/15/2018 23:13	GO
Sulfate	1400	50		mg/L	R385209	50	11/17/2018 11:43	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.0400	0.00500		mg/L	270519	1	11/21/2018 20:38	KT
Copper	0.249	0.00200		mg/L	270519	1	11/21/2018 20:38	KT
Lead	0.102	0.00100		mg/L	270519	1	11/21/2018 20:38	KT
Zinc	39.5	0.100		mg/L	270519	10	11/23/2018 21:48	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270308	1	11/16/2018 13:45	UH
4,4'-DDE	BRL	0.00010		mg/L	270308	1	11/16/2018 13:45	UH
4,4'-DDT	BRL	0.00010		mg/L	270308	1	11/16/2018 13:45	UH
alpha-BHC	0.033	0.0012		mg/L	270308	25	11/16/2018 18:35	UH
alpha-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:45	UH
beta-BHC	0.0044	0.0012		mg/L	270308	25	11/16/2018 18:35	UH
delta-BHC	0.0044	0.0012		mg/L	270308	25	11/16/2018 18:35	UH
Dieldrin	BRL	0.00010		mg/L	270308	1	11/16/2018 13:45	UH
gamma-BHC	0.020	0.0012		mg/L	270308	25	11/16/2018 18:35	UH
gamma-Chlordane	BRL	0.000050		mg/L	270308	1	11/16/2018 13:45	UH
Heptachlor	BRL	0.000050		mg/L	270308	1	11/16/2018 13:45	UH
Methoxychlor	BRL	0.00050		mg/L	270308	1	11/16/2018 13:45	UH
Toxaphene	BRL	0.0030		mg/L	270308	1	11/16/2018 13:45	UH
Surr: Decachlorobiphenyl	75.5	20.6-134		%REC	270308	1	11/16/2018 13:45	UH
Surr: Tetrachloro-m-xylene	65.8	37-128		%REC	270308	1	11/16/2018 13:45	UH

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: 26-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-4
Project Name: BFEL - Atlanta	Collection Date: 11/15/2018 12:00:00 PM
Lab ID: 1811F10-011	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	0.0630	0.00500		mg/L	270441	1	11/21/2018 14:47	KT
Copper	0.240	0.00200		mg/L	270441	1	11/21/2018 14:47	KT
Lead	0.805	0.00100		mg/L	270441	1	11/21/2018 14:47	KT
Zinc	38.4	0.100		mg/L	270441	10	11/21/2018 22:11	KT
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	0.0382	0.00500		mg/L	270519	1	11/21/2018 20:42	KT
Copper	0.225	0.00200		mg/L	270519	1	11/21/2018 20:42	KT
Lead	0.0946	0.00100		mg/L	270519	1	11/21/2018 20:42	KT
Zinc	40.5	0.100		mg/L	270519	10	11/23/2018 22:01	KT

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-7				Lab ID: 1811F10-002			
Collection Date: 11/15/2018 12:27:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B			(SW3005A)				
Copper	153		0.186	0.200	mg/L	270441	100
Zinc	326		0.168	1.00	mg/L	270441	100
ION SCAN SW9056A							
Nitrate	110		2.8	12	mg/L	R385165	50
Sulfate	3300		5.8	50	mg/L	R385165	50
Dissolved Metals by ICP/MS SW6020B			(SW3005A)				
Copper	41.8		0.186	0.200	mg/L	270519	100
Zinc	89.3		0.168	1.00	mg/L	270519	100
CHLORINATED PESTICIDES, TCL SW8081B			(SW3510C)				
alpha-BHC	0.00050		0.000010	0.000050	mg/L	270308	1
beta-BHC	0.0019		0.000008	0.00010	mg/L	270308	2
delta-BHC	0.00023		0.000009	0.000050	mg/L	270308	1
gamma-BHC	0.00049		0.000005	0.000050	mg/L	270308	1
Client Sample ID: TW-8				Lab ID: 1811F10-003			
Collection Date: 11/15/2018 2:52:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B			(SW5030B)				
1,2,4-Trichlorobenzene	0.12		0.00039	0.0050	mg/L	270425	1
Benzene	0.13		0.00037	0.0050	mg/L	270425	1
Chlorobenzene	1.1		0.021	0.25	mg/L	270425	50
Total Metals by ICP/MS SW6020B			(SW3005A)				
Arsenic	0.119		0.00205	0.00500	mg/L	270441	1
Copper	0.165		0.00186	0.00200	mg/L	270441	1
Zinc	1.26		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	1600		2.3	20	mg/L	R385209	20
Dissolved Metals by ICP/MS SW6020B			(SW3005A)				
Copper	0.155		0.00186	0.00200	mg/L	270519	1
Zinc	0.710		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B			(SW3510C)				
4,4'-DDD	0.0054		0.00014	0.0010	mg/L	270308	10
4,4'-DDT	0.0048		0.000072	0.0010	mg/L	270308	10
alpha-BHC	0.47		0.010	0.050	mg/L	270308	1000
beta-BHC	0.051		0.00076	0.010	mg/L	270308	200
delta-BHC	1.3		0.0091	0.050	mg/L	270308	1000
Dieldrin	0.0048		0.000053	0.0010	mg/L	270308	10
gamma-BHC	1.1		0.0053	0.050	mg/L	270308	1000
gamma-Chlordane	0.0012		0.000013	0.000050	mg/L	270308	1
Client Sample ID: DUP-2				Lab ID: 1811F10-004			
Collection Date: 11/15/2018 12:00:00 PM				Matrix: Groundwater			
CHLORINATED PESTICIDES, TCL SW8081B			(SW3510C)				
4,4'-DDD	0.0056		0.00014	0.0010	mg/L	270308	10
4,4'-DDT	0.0065		0.000072	0.0010	mg/L	270308	10
alpha-BHC	0.49		0.010	0.050	mg/L	270308	1000

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: DUP-2				Lab ID:	1811F10-004		
Collection Date: 11/15/2018 12:00:00 PM				Matrix:	Groundwater		
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
beta-BHC	0.054		0.00076	0.010	mg/L	270308	200
delta-BHC	1.4		0.0091	0.050	mg/L	270308	1000
Dieldrin	0.0045		0.000053	0.0010	mg/L	270308	10
gamma-BHC	1.2		0.0053	0.050	mg/L	270308	1000
gamma-Chlordane	0.0012		0.000013	0.000050	mg/L	270308	1
Client Sample ID: MW-113				Lab ID:	1811F10-005		
Collection Date: 11/15/2018 12:18:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
cis-1,2-Dichloroethene	0.063		0.00028	0.0050	mg/L	270425	1
Trichloroethene	0.060		0.00030	0.0050	mg/L	270425	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	12.1		0.0372	0.0400	mg/L	270441	20
Zinc	83.4		0.0336	0.200	mg/L	270441	20
ION SCAN SW9056A							
Sulfate	1300		5.8	50	mg/L	R385165	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	12.5		0.0372	0.0400	mg/L	270519	20
Zinc	86.0		0.0336	0.200	mg/L	270519	20
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00041		0.000010	0.000050	mg/L	270308	1
beta-BHC	0.00060		0.000004	0.000050	mg/L	270308	1
delta-BHC	0.00039		0.000009	0.000050	mg/L	270308	1
gamma-BHC	0.00061		0.000005	0.000050	mg/L	270308	1
Client Sample ID: DUP-3				Lab ID:	1811F10-006		
Collection Date: 11/15/2018 12:00:00 PM				Matrix:	Groundwater		
ION SCAN SW9056A							
Sulfate	1000		5.8	50	mg/L	R385165	50
Client Sample ID: MW-114				Lab ID:	1811F10-007		
Collection Date: 11/15/2018 2:52:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	1.68		0.00186	0.00200	mg/L	270441	1
Lead	0.00126		0.000621	0.00100	mg/L	270441	1
Zinc	8.13		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Nitrate	21		2.8	12	mg/L	R385165	50
Sulfate	430		5.8	50	mg/L	R385165	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	1.66		0.00186	0.00200	mg/L	270519	1
Zinc	8.29		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00029		0.000010	0.000050	mg/L	270308	1
beta-BHC	0.0022		0.000008	0.00010	mg/L	270308	2
delta-BHC	0.00034		0.000009	0.000050	mg/L	270308	1

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-114				Lab ID: 1811F10-007			
Collection Date: 11/15/2018 2:52:00 PM				Matrix: Groundwater			
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
gamma-BHC	0.00036		0.000005	0.000050	mg/L	270308	1
Client Sample ID: MW-111				Lab ID: 1811F10-009			
Collection Date: 11/15/2018 2:35:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
Chlorobenzene	0.094		0.00042	0.0050	mg/L	270425	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.107		0.00186	0.00200	mg/L	270441	1
Lead	0.00540		0.000621	0.00100	mg/L	270441	1
Zinc	5.44		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	370		1.2	10	mg/L	R385209	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0529		0.00186	0.00200	mg/L	270519	1
Zinc	5.59		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.023		0.00040	0.0020	mg/L	270308	40
beta-BHC	0.0058		0.00015	0.0020	mg/L	270308	40
delta-BHC	0.048		0.00036	0.0020	mg/L	270308	40
Dieldrin	0.00011		0.000005	0.00010	mg/L	270308	1
gamma-BHC	0.020		0.00021	0.0020	mg/L	270308	40
Client Sample ID: MW-109				Lab ID: 1811F10-010			
Collection Date: 11/15/2018 3:40:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0617		0.00205	0.00500	mg/L	270441	1
Copper	0.244		0.00186	0.00200	mg/L	270441	1
Lead	0.827		0.000621	0.00100	mg/L	270441	1
Zinc	40.3		0.0168	0.100	mg/L	270441	10
ION SCAN SW9056A							
Nitrate	2.0		0.055	0.25	mg/L	R385165	1
Sulfate	1400		5.8	50	mg/L	R385209	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0400		0.00205	0.00500	mg/L	270519	1
Copper	0.249		0.00186	0.00200	mg/L	270519	1
Lead	0.102		0.000621	0.00100	mg/L	270519	1
Zinc	39.5		0.0168	0.100	mg/L	270519	10
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.033		0.00025	0.0012	mg/L	270308	25
beta-BHC	0.0044		0.000095	0.0012	mg/L	270308	25
delta-BHC	0.0044		0.00023	0.0012	mg/L	270308	25
gamma-BHC	0.020		0.00013	0.0012	mg/L	270308	25
Client Sample ID: DUP-4				Lab ID: 1811F10-011			
Collection Date: 11/15/2018 12:00:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: DUP-4				Lab ID:	1811F10-011		
Collection Date: 11/15/2018 12:00:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0630		0.00205	0.00500	mg/L	270441	1
Copper	0.240		0.00186	0.00200	mg/L	270441	1
Lead	0.805		0.000621	0.00100	mg/L	270441	1
Zinc	38.4		0.0168	0.100	mg/L	270441	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0382		0.00205	0.00500	mg/L	270519	1
Copper	0.225		0.00186	0.00200	mg/L	270519	1
Lead	0.0946		0.000621	0.00100	mg/L	270519	1
Zinc	40.5		0.0168	0.100	mg/L	270519	10

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Lab Order: 1811F10

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811F10-001A	TB-07	11/15/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-002A	TW-7	11/15/2018 12:27:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-002B	TW-7	11/15/2018 12:27:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-002C	TW-7	11/15/2018 12:27:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-002D	TW-7	11/15/2018 12:27:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-002E	TW-7	11/15/2018 12:27:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-003A	TW-8	11/15/2018 2:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/20/2018
1811F10-003B	TW-8	11/15/2018 2:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-003C	TW-8	11/15/2018 2:52:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-003C	TW-8	11/15/2018 2:52:00PM	Groundwater	ION SCAN			11/16/2018
1811F10-003D	TW-8	11/15/2018 2:52:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-003E	TW-8	11/15/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811F10-003E	TW-8	11/15/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-004A	DUP-2	11/15/2018 12:00:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-005A	MW-113	11/15/2018 12:18:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-005B	MW-113	11/15/2018 12:18:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-005C	MW-113	11/15/2018 12:18:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-005D	MW-113	11/15/2018 12:18:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-005E	MW-113	11/15/2018 12:18:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-006A	DUP-3	11/15/2018 12:00:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-007A	MW-114	11/15/2018 2:52:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-007B	MW-114	11/15/2018 2:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-007C	MW-114	11/15/2018 2:52:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-007D	MW-114	11/15/2018 2:52:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-007E	MW-114	11/15/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811F10-007E	MW-114	11/15/2018 2:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-008B	MW-115	11/15/2018 11:25:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-009A	MW-111	11/15/2018 2:35:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-009B	MW-111	11/15/2018 2:35:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Lab Order: 1811F10

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811F10-009C	MW-111	11/15/2018 2:35:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-009C	MW-111	11/15/2018 2:35:00PM	Groundwater	ION SCAN			11/16/2018
1811F10-009D	MW-111	11/15/2018 2:35:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-009E	MW-111	11/15/2018 2:35:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811F10-009E	MW-111	11/15/2018 2:35:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-010A	MW-109	11/15/2018 3:40:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/16/2018 3:13:00PM	11/19/2018
1811F10-010B	MW-109	11/15/2018 3:40:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/16/2018 9:00:00AM	11/16/2018
1811F10-010C	MW-109	11/15/2018 3:40:00PM	Groundwater	ION SCAN			11/15/2018
1811F10-010C	MW-109	11/15/2018 3:40:00PM	Groundwater	ION SCAN			11/17/2018
1811F10-010D	MW-109	11/15/2018 3:40:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-010E	MW-109	11/15/2018 3:40:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811F10-010E	MW-109	11/15/2018 3:40:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811F10-011A	DUP-4	11/15/2018 12:00:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811F10-011B	DUP-4	11/15/2018 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811F10-011B	DUP-4	11/15/2018 12:00:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270308

Sample ID: MB-270308	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593261							
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	0.000374	0	0.0005		74.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.000409	0	0.0005		81.8	37	128				

Sample ID: LCS-270308	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
Sample Type: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593262							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000989	0.00010	0.0010		98.9	61	127				
Dieldrin	0.000914	0.00010	0.0010		91.4	66.8	130				
gamma-BHC	0.000929	0.000050	0.0010		92.9	70.2	129				
Heptachlor	0.000954	0.000050	0.0010		95.4	65.1	131				
Surr: Decachlorobiphenyl	0.000408	0	0.0005		81.5	20.6	134				
Surr: Tetrachloro-m-xylene	0.000392	0	0.0005		78.5	37	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270308

Sample ID: 1811E99-007AMS	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593276							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000958	0.00010	0.0010		95.8	42.4	138				
Dieldrin	0.000856	0.00010	0.0010		85.6	44.9	138				
gamma-BHC	0.000849	0.000050	0.0010		84.9	56.5	137				
Heptachlor	0.000898	0.000050	0.0010		89.8	43.6	134				
Surr: Decachlorobiphenyl	0.000381	0	0.0005		76.3	20.6	134				
Surr: Tetrachloro-m-xylene	0.000374	0	0.0005		74.8	37	128				

Sample ID: 1811E99-007AMSD	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384853							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270308	Analysis Date: 11/16/2018	Seq No: 8593329							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000914	0.00010	0.0010		91.4	42.4	138	0.0009579	4.70	20	
Dieldrin	0.000815	0.00010	0.0010		81.5	44.9	138	0.0008560	4.86	20	
gamma-BHC	0.000858	0.000050	0.0010		85.8	56.5	137	0.0008490	1.02	20	
Heptachlor	0.000811	0.000050	0.0010		81.1	43.6	134	0.0008978	10.2	21.3	
Surr: Decachlorobiphenyl	0.000363	0	0.0005		72.6	20.6	134	0.0003814	0	0	
Surr: Tetrachloro-m-xylene	0.000330	0	0.0005		65.9	37	128	0.0003741	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421

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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: MB-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384927							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/16/2018	Seq No: 8595421							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05198	0	0.0500		104	68	127				
Surr: Dibromofluoromethane	0.05206	0	0.0500		104	84.4	122				
Surr: Toluene-d8	0.04969	0	0.0500		99.4	80.1	116				

Sample ID: LCS-270425	Client ID:	Units: mg/L	Prep Date: 11/16/2018	Run No: 384986							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/19/2018	Seq No: 8599017							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.05976	0.0050	0.0500		120	69	136				
Benzene	0.05210	0.0050	0.0500		104	73.7	126				
Chlorobenzene	0.05255	0.0050	0.0500		105	73.5	124				
Toluene	0.05441	0.0050	0.0500		109	76.8	125				
Trichloroethene	0.05309	0.0050	0.0500		106	70.9	124				
Surr: 4-Bromofluorobenzene	0.04962	0	0.0500		99.2	68	127				
Surr: Dibromofluoromethane	0.04793	0	0.0500		95.9	84.4	122				
Surr: Toluene-d8	0.05018	0	0.0500		100	80.1	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270425

Sample ID: 1811F10-003AMS	Client ID: TW-8	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599454							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.103	0.25	2.500		124	65.7	143				
Benzene	2.848	0.25	2.500	0.1285	109	66.1	137				
Chlorobenzene	3.724	0.25	2.500	1.124	104	70.9	132				
Toluene	2.574	0.25	2.500		103	63.8	141				
Trichloroethene	2.664	0.25	2.500		107	70.6	128				
Surr: 4-Bromofluorobenzene	2.470	0	2.500		98.8	68	127				
Surr: Dibromofluoromethane	2.678	0	2.500		107	84.4	122				
Surr: Toluene-d8	2.472	0	2.500		98.9	80.1	116				

Sample ID: 1811F10-003AMSD	Client ID: TW-8	Units: mg/L	Prep Date: 11/16/2018	Run No: 385078							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270425	Analysis Date: 11/20/2018	Seq No: 8599464							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	3.074	0.25	2.500		123	65.7	143	3.103	0.955	17.7	
Benzene	2.783	0.25	2.500	0.1285	106	66.1	137	2.848	2.31	20	
Chlorobenzene	3.624	0.25	2.500	1.124	100	70.9	132	3.724	2.72	20	
Toluene	2.533	0.25	2.500		101	63.8	141	2.574	1.63	20	
Trichloroethene	2.552	0.25	2.500		102	70.6	128	2.664	4.27	20	
Surr: 4-Bromofluorobenzene	2.498	0	2.500		99.9	68	127	2.470	0	0	
Surr: Dibromofluoromethane	2.696	0	2.500		108	84.4	122	2.678	0	0	
Surr: Toluene-d8	2.503	0	2.500		100	80.1	116	2.472	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270441

Sample ID: MB-270441	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/21/2018	Seq No: 8603366							
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-270441	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/21/2018	Seq No: 8603367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09557	0.00500	0.1000		95.6	80	120				
Copper	0.09989	0.00200	0.1000		99.9	80	120				
Lead	0.09707	0.00100	0.1000		97.1	80	120				
Zinc	0.09457	0.0100	0.1000		94.6	80	120				

Sample ID: 1811F10-002DMS	Client ID: TW-7	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000	0.01068	-10.7	75	125				S
Copper	151.7	0.200	0.1000	147.6	4060	75	125				S
Lead	0.1242	0.100	0.1000	0.02967	94.6	75	125				
Zinc	319.5	1.00	0.1000	316.1	3400	75	125				S

Sample ID: 1811F10-002DMSD	Client ID: TW-7	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000	0.01068	-10.7	75	125	0	0	20	S
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270441

Sample ID: 1811F10-002DMSD	Client ID: TW-7	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604858

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	147.0	0.200	0.1000	147.6	-642	75	125	151.7	3.15	20	S
Lead	0.1117	0.100	0.1000	0.02967	82.1	75	125	0.1242	10.6	20	
Zinc	310.2	1.00	0.1000	316.1	-5870	75	125	319.5	2.94	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270519

Sample ID: MB-270519	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/21/2018	Seq No: 8604582							
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-270519	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/21/2018	Seq No: 8604583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.08438	0.00500	0.1000		84.4	80	120				
Copper	0.08818	0.00200	0.1000		88.2	80	120				
Lead	0.08517	0.00100	0.1000		85.2	80	120				
Zinc	0.08703	0.0100	0.1000		87.0	80	120				

Sample ID: 1811F10-002EMS	Client ID: TW-7	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000		0	75	125				S
Copper	33.90	0.200	0.1000	41.83	-7930	75	125				S
Lead	BRL	0.100	0.1000		0	75	125				S
Zinc	71.53	1.00	0.1000	89.25	-17700	75	125				S

Sample ID: 1811F10-002EMSD	Client ID: TW-7	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000		0	75	125	0	0	20	S
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: 270519

Sample ID: 1811F10-002EMSD	Client ID: TW-7	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606660

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	33.74	0.200	0.1000	41.83	-8090	75	125	33.90	0.458	20	S
Lead	BRL	0.100	0.1000		0	75	125	0	0	20	S
Zinc	70.87	1.00	0.1000	89.25	-18400	75	125	71.53	0.940	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: R385165

Sample ID: MB-R385165	Client ID:	Units: mg/L	Prep Date:	Run No: 385165							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385165	Analysis Date: 11/15/2018	Seq No: 8601276							
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-R385165	Client ID:	Units: mg/L	Prep Date:	Run No: 385165							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385165	Analysis Date: 11/15/2018	Seq No: 8601277							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.110 0.25 5.000 102 90 110
 Sulfate 24.81 1.0 25.00 99.2 90 110

Sample ID: 1811F10-002CMS	Client ID: TW-7	Units: mg/L	Prep Date:	Run No: 385165							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385165	Analysis Date: 11/15/2018	Seq No: 8601310							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 397.6 12 250.0 114.4 113 90 110 S
 Sulfate 4471 50 1250 3321 92.0 90 110

Sample ID: 1811F10-002CMSD	Client ID: TW-7	Units: mg/L	Prep Date:	Run No: 385165							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385165	Analysis Date: 11/15/2018	Seq No: 8601311							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 398.6 12 250.0 114.4 114 90 110 397.6 0.253 20 S
 Sulfate 4287 50 1250 3321 77.3 90 110 4471 4.22 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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: R385209

Sample ID: MB-R385209	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604166							
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-R385209	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604167							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.201 0.25 5.000 104 90 110
 Sulfate 25.00 1.0 25.00 100 90 110

Sample ID: 1811F42-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604179							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 6.760 0.25 5.000 1.365 108 90 110
 Sulfate 26.15 1.0 25.00 1.225 99.7 90 110

Sample ID: 1811F95-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604181							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 6.505 0.25 5.000 1.181 106 90 110
 Sulfate 25.80 1.0 25.00 0.7540 100 90 110

Sample ID: 1811F42-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604180							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 6.798 0.25 5.000 1.365 109 90 110 6.760 0.552 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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811F10

ANALYTICAL QC SUMMARY REPORT

BatchID: R385209

Sample ID: 1811F42-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604180							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	26.19	1.0	25.00	1.225	99.9	90	110	26.15	0.173	20	
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Qualifiers:

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 27, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL - Atlanta

Dear Rhonda Quinn:

Order No: 1811G45

Analytical Environmental Services, Inc. received 8 samples on 11/16/2018 5:25:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.		Number of Containers
PHONE: 770-421-3400		EMAIL:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; gap: 5px;"> VOC list8081A8081B8081C8081D8081E8081F8081G8081H8081I8081J8081K8081L8081M8081N8081O8081P8081Q8081R8081S8081T8081U8081V8081W8081X8081Y8081Z </div> <div style="display: flex; gap: 5px;"> Nitrate9056Sulfate9056 </div> <div style="display: flex; gap: 5px;"> Tot metalsAsCdPbZn6020 </div> <div style="display: flex; gap: 5px;"> Diss metalsAsCdPbZn6020 </div> </div>										REMARKS		
SAMPLED BY: D Howard, B Urdyk, B Greeson		SIGNATURE: <i>Daniel Howard</i>				PRESERVATION (see codes)												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS	Number of Containers
		DATE	TIME				FI	I	IN	I								
1	TB-08	11/16/18	0900	X		W	X											2
2	TW-9		1146	X		GW	X	X	X	X								7
3	TW-10		1310	X		GW	X	X	X	X								7
4	OW-2		1355	X		GW	X	X	X	X								7
5	OW-3		1455	X		GW	X	X	X	X								7
6	OW-1		1550	X		GW	X	X	X	X								7
7	MW-119		1218	X		GW	X	X	X	X								7
8	MW-120		1516	X		GW	X	X	X	X								7
9	Temp Blank																	
10																		
11																		
12																		
13																		
14																		

REQUISITIONED BY: <i>Daniel Howard</i>	DATE/TIME: 11/16/18 1640	RECEIVED BY: <i>Senge</i>	DATE/TIME: 11-16-18 4:40	PROJECT INFORMATION		RECEIPT	
2. <i>Senge</i>	11-16-18 8:25	2. <i>Emily Williams</i>	11/16/18 5:25pm	PROJECT NAME: BFEL Atlanta	Total # of Containers		Turnaround Time (TAT) Request <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other
3.		3.		PROJECT #: 6122080154			
SPECIAL INSTRUCTIONS/COMMENTS: Dissolved metals will be filtered by Lab				SHIPMENT METHOD		SITE ADDRESS: 1525 Pine St NW Atlanta, GA	
				OUT: / / VIA:		SEND REPORT TO: Rhonda Quinn	
				IN: / / VIA:		INVOICE TO (IF DIFFERENT FROM ABOVE):	
				client FedEx UPS US mail Courier		STATE PROGRAM (if any):	
				other:		E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>	
				QUOTE #: PO#:		DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Client: Wood Environment & Infrastructure

Project: BFEL - Atlanta

Lab ID: 1811G45

Case Narrative

Ion Scan Analysis by Method SW9056:

Due to matrix, sample 1811G45-003C required dilution during analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-08
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018
Lab ID: 1811G45-001	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	270569	1	11/20/2018 18:25	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 18:25	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 18:25	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 18:25	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 18:25	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Chlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 18:25	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 18:25	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 18:25	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 18:25	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 18:25	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270569	1	11/20/2018 18:25	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270569	1	11/20/2018 18:25	JE
Surr: Toluene-d8	99.9	80.1-116		%REC	270569	1	11/20/2018 18:25	JE

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: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-9
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 11:46:00 AM
Lab ID: 1811G45-002	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	270569	1	11/20/2018 18:50	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 18:50	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 18:50	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 18:50	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 18:50	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Chlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 18:50	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 18:50	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 18:50	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 18:50	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 18:50	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270569	1	11/20/2018 18:50	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270569	1	11/20/2018 18:50	JE
Surr: Toluene-d8	99.8	80.1-116		%REC	270569	1	11/20/2018 18:50	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-9
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 11:46:00 AM
Lab ID: 1811G45-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 14:51	KT
Copper	0.0871	0.00200		mg/L	270441	1	11/21/2018 14:51	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 14:51	KT
Zinc	2.62	0.0100		mg/L	270441	1	11/21/2018 14:51	KT
ION SCAN SW9056A								
Nitrate	0.74	0.25		mg/L	R385209	1	11/16/2018 19:48	GO
Sulfate	170	10		mg/L	R385287	10	11/21/2018 17:40	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 20:45	KT
Copper	0.0709	0.00200		mg/L	270519	1	11/21/2018 20:45	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:45	KT
Zinc	2.50	0.0100		mg/L	270519	1	11/23/2018 22:04	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 11:17	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 11:17	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 11:17	UH
alpha-BHC	0.0033	0.00025		mg/L	270394	5	11/20/2018 12:58	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:17	UH
beta-BHC	0.0021	0.00025		mg/L	270394	5	11/20/2018 12:58	UH
delta-BHC	0.0037	0.00025		mg/L	270394	5	11/20/2018 12:58	UH
Dieldrin	0.00011	0.00010		mg/L	270394	1	11/20/2018 11:17	UH
gamma-BHC	0.00021	0.000050		mg/L	270394	1	11/20/2018 11:17	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:17	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 11:17	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 11:17	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 11:17	UH
Surr: Decachlorobiphenyl	88.1	20.6-134		%REC	270394	1	11/20/2018 11:17	UH
Surr: Tetrachloro-m-xylene	82.5	37-128		%REC	270394	1	11/20/2018 11:17	UH

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: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-10
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 1:10:00 PM
Lab ID: 1811G45-003	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	270569	1	11/20/2018 20:53	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 20:53	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 20:53	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 20:53	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 20:53	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Chlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 20:53	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 20:53	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 20:53	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 20:53	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 20:53	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270569	1	11/20/2018 20:53	JE
Surr: Dibromofluoromethane	112	84.4-122		%REC	270569	1	11/20/2018 20:53	JE
Surr: Toluene-d8	99.4	80.1-116		%REC	270569	1	11/20/2018 20:53	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-10
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 1:10:00 PM
Lab ID: 1811G45-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 14:54	KT
Copper	13.4	0.0100		mg/L	270441	5	11/21/2018 22:14	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 14:54	KT
Zinc	14.7	0.0500		mg/L	270441	5	11/21/2018 22:14	KT
ION SCAN SW9056A								
Nitrate	BRL	12		mg/L	R385209	50	11/16/2018 20:03	GO
Sulfate	750	50		mg/L	R385209	50	11/16/2018 20:03	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 20:48	KT
Copper	15.2	0.0400		mg/L	270519	20	11/23/2018 22:07	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:48	KT
Zinc	16.2	0.200		mg/L	270519	20	11/23/2018 22:07	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 11:29	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 11:29	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 11:29	UH
alpha-BHC	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
beta-BHC	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
delta-BHC	0.000078	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
Dieldrin	BRL	0.00010		mg/L	270394	1	11/20/2018 11:29	UH
gamma-BHC	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 11:29	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 11:29	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 11:29	UH
Surr: Decachlorobiphenyl	91	20.6-134		%REC	270394	1	11/20/2018 11:29	UH
Surr: Tetrachloro-m-xylene	95.5	37-128		%REC	270394	1	11/20/2018 11:29	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: OW-2
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 1:55:00 PM
Lab ID: 1811G45-004	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	270569	1	11/20/2018 21:17	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,2,4-Trichlorobenzene	0.011	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 21:17	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 21:17	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 21:17	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 21:17	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Chlorobenzene	0.27	0.050		mg/L	270569	10	11/21/2018 19:11	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 21:17	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 21:17	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 21:17	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 21:17	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 21:17	JE
Surr: 4-Bromofluorobenzene	96.9	68-127		%REC	270569	1	11/20/2018 21:17	JE
Surr: 4-Bromofluorobenzene	99.2	68-127		%REC	270569	10	11/21/2018 19:11	JE
Surr: Dibromofluoromethane	109	84.4-122		%REC	270569	1	11/20/2018 21:17	JE
Surr: Dibromofluoromethane	101	84.4-122		%REC	270569	10	11/21/2018 19:11	JE
Surr: Toluene-d8	101	80.1-116		%REC	270569	1	11/20/2018 21:17	JE

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: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: OW-2
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 1:55:00 PM
Lab ID: 1811G45-004	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	97.3	80.1-116		%REC	270569	10	11/21/2018 19:11	JE
Total Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	0.0630	0.00500		mg/L	270441	1	11/21/2018 15:04	KT
Copper	0.0580	0.00200		mg/L	270441	1	11/21/2018 15:04	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 15:04	KT
Zinc	3.16	0.0100		mg/L	270441	1	11/21/2018 15:04	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385209	1	11/16/2018 20:18	GO
Sulfate	530	50		mg/L	R385287	50	11/21/2018 16:40	GO
Dissolved Metals by ICP/MS SW6020B				(SW3005A)				
Arsenic	0.0122	0.00500		mg/L	270519	1	11/21/2018 20:51	KT
Copper	0.0576	0.00200		mg/L	270519	1	11/21/2018 20:51	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:51	KT
Zinc	2.99	0.0100		mg/L	270519	1	11/23/2018 22:10	KT
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)				
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 11:40	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 11:40	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 11:40	UH
alpha-BHC	0.059	0.010		mg/L	270394	200	11/20/2018 13:21	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:40	UH
beta-BHC	0.0086	0.00050		mg/L	270394	10	11/20/2018 13:10	UH
delta-BHC	0.22	0.010		mg/L	270394	200	11/20/2018 13:21	UH
Dieldrin	BRL	0.00010		mg/L	270394	1	11/20/2018 11:40	UH
gamma-BHC	0.084	0.010		mg/L	270394	200	11/20/2018 13:21	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:40	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 11:40	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 11:40	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 11:40	UH
Surr: Decachlorobiphenyl	78.4	20.6-134		%REC	270394	1	11/20/2018 11:40	UH
Surr: Tetrachloro-m-xylene	268	37-128	S	%REC	270394	1	11/20/2018 11:40	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: OW-3
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 2:55:00 PM
Lab ID: 1811G45-005	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	270569	1	11/20/2018 21:42	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 21:42	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 21:42	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 21:42	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 21:42	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Chlorobenzene	0.0062	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 21:42	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 21:42	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 21:42	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 21:42	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 21:42	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270569	1	11/20/2018 21:42	JE
Surr: Dibromofluoromethane	114	84.4-122		%REC	270569	1	11/20/2018 21:42	JE
Surr: Toluene-d8	100	80.1-116		%REC	270569	1	11/20/2018 21:42	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: OW-3
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 2:55:00 PM
Lab ID: 1811G45-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 15:07	KT
Copper	0.638	0.00200		mg/L	270441	1	11/21/2018 15:07	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 15:07	KT
Zinc	6.11	0.0100		mg/L	270441	1	11/21/2018 15:07	KT
ION SCAN SW9056A								
Nitrate	0.59	0.25		mg/L	R385209	1	11/16/2018 20:33	GO
Sulfate	480	50		mg/L	R385287	50	11/21/2018 16:55	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 20:54	KT
Copper	0.644	0.00200		mg/L	270519	1	11/21/2018 20:54	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:54	KT
Zinc	6.26	0.0100		mg/L	270519	1	11/23/2018 22:14	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 11:51	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 11:51	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 11:51	UH
alpha-BHC	0.0033	0.00050		mg/L	270394	10	11/20/2018 13:32	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:51	UH
beta-BHC	0.0019	0.00050		mg/L	270394	10	11/20/2018 13:32	UH
delta-BHC	0.0089	0.00050		mg/L	270394	10	11/20/2018 13:32	UH
Dieldrin	BRL	0.00010		mg/L	270394	1	11/20/2018 11:51	UH
gamma-BHC	0.0015	0.000050		mg/L	270394	1	11/20/2018 11:51	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 11:51	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 11:51	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 11:51	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 11:51	UH
Surr: Decachlorobiphenyl	80.8	20.6-134		%REC	270394	1	11/20/2018 11:51	UH
Surr: Tetrachloro-m-xylene	86.4	37-128		%REC	270394	1	11/20/2018 11:51	UH

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: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: OW-1
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 3:50:00 PM
Lab ID: 1811G45-006	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	270569	1	11/20/2018 22:07	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 22:07	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 22:07	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 22:07	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 22:07	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Chlorobenzene	0.056	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 22:07	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 22:07	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 22:07	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 22:07	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 22:07	JE
Surr: 4-Bromofluorobenzene	99.2	68-127		%REC	270569	1	11/20/2018 22:07	JE
Surr: Dibromofluoromethane	110	84.4-122		%REC	270569	1	11/20/2018 22:07	JE
Surr: Toluene-d8	99.7	80.1-116		%REC	270569	1	11/20/2018 22:07	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: OW-1
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 3:50:00 PM
Lab ID: 1811G45-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.150	0.00500		mg/L	270441	1	11/21/2018 15:10	KT
Copper	0.201	0.00200		mg/L	270441	1	11/21/2018 15:10	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 15:10	KT
Zinc	4.61	0.0100		mg/L	270441	1	11/21/2018 15:10	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385209	1	11/16/2018 20:48	GO
Sulfate	500	50		mg/L	R385287	50	11/21/2018 17:10	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.0273	0.00500		mg/L	270519	1	11/21/2018 20:58	KT
Copper	0.0572	0.00200		mg/L	270519	1	11/21/2018 20:58	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 20:58	KT
Zinc	4.58	0.0100		mg/L	270519	1	11/23/2018 22:17	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	0.00018	0.00010		mg/L	270394	1	11/20/2018 12:03	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 12:03	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 12:03	UH
alpha-BHC	0.017	0.0012		mg/L	270394	25	11/20/2018 13:43	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:03	UH
beta-BHC	0.0045	0.0012		mg/L	270394	25	11/20/2018 13:43	UH
delta-BHC	0.023	0.0012		mg/L	270394	25	11/20/2018 13:43	UH
Dieldrin	0.00029	0.00010		mg/L	270394	1	11/20/2018 12:03	UH
gamma-BHC	0.0046	0.0012		mg/L	270394	25	11/20/2018 13:43	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:03	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 12:03	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 12:03	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 12:03	UH
Surr: Decachlorobiphenyl	80.1	20.6-134		%REC	270394	1	11/20/2018 12:03	UH
Surr: Tetrachloro-m-xylene	84.7	37-128		%REC	270394	1	11/20/2018 12:03	UH

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: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-119
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 12:18:00 PM
Lab ID: 1811G45-007	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	270569	1	11/20/2018 22:31	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
1,4-Dioxane	0.22	0.15		mg/L	270569	1	11/20/2018 22:31	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 22:31	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 22:31	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 22:31	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Chlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 22:31	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 22:31	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 22:31	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Trichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 22:31	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 22:31	JE
Surr: 4-Bromofluorobenzene	100	68-127		%REC	270569	1	11/20/2018 22:31	JE
Surr: Dibromofluoromethane	107	84.4-122		%REC	270569	1	11/20/2018 22:31	JE
Surr: Toluene-d8	98.8	80.1-116		%REC	270569	1	11/20/2018 22:31	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-119
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 12:18:00 PM
Lab ID: 1811G45-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 15:13	KT
Copper	0.00806	0.00200		mg/L	270441	1	11/21/2018 15:13	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 15:13	KT
Zinc	0.697	0.0100		mg/L	270441	1	11/21/2018 15:13	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385209	1	11/16/2018 21:49	GO
Sulfate	77	1.0		mg/L	R385209	1	11/16/2018 21:49	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 21:01	KT
Copper	BRL	0.00200		mg/L	270519	1	11/23/2018 22:20	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 21:01	KT
Zinc	0.627	0.0100		mg/L	270519	1	11/23/2018 22:20	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 12:14	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 12:14	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 12:14	UH
alpha-BHC	0.00063	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
beta-BHC	0.00054	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
delta-BHC	0.00058	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
Dieldrin	BRL	0.00010		mg/L	270394	1	11/20/2018 12:14	UH
gamma-BHC	0.000064	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 12:14	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 12:14	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 12:14	UH
Surr: Decachlorobiphenyl	76.5	20.6-134		%REC	270394	1	11/20/2018 12:14	UH
Surr: Tetrachloro-m-xylene	82.4	37-128		%REC	270394	1	11/20/2018 12:14	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-120
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 3:16:00 PM
Lab ID: 1811G45-008	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	270569	1	11/20/2018 22:56	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
1,4-Dioxane	BRL	0.15		mg/L	270569	1	11/20/2018 22:56	JE
2-Butanone	BRL	0.050		mg/L	270569	1	11/20/2018 22:56	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270569	1	11/20/2018 22:56	JE
Acetone	BRL	0.050		mg/L	270569	1	11/20/2018 22:56	JE
Benzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Carbon disulfide	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Chlorobenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Chloroethane	BRL	0.010		mg/L	270569	1	11/20/2018 22:56	JE
Chloroform	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Chloromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
cis-1,2-Dichloroethene	0.016	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Cyclohexane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Ethylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270569	1	11/20/2018 22:56	JE
Isopropylbenzene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Methylene chloride	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Naphthalene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Styrene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Tetrachloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Tetrahydrofuran	BRL	0.010		mg/L	270569	1	11/20/2018 22:56	JE
Toluene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Trichloroethene	0.0086	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Vinyl chloride	BRL	0.0020		mg/L	270569	1	11/20/2018 22:56	JE
Xylenes, Total	BRL	0.0050		mg/L	270569	1	11/20/2018 22:56	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270569	1	11/20/2018 22:56	JE
Surr: Dibromofluoromethane	101	84.4-122		%REC	270569	1	11/20/2018 22:56	JE
Surr: Toluene-d8	103	80.1-116		%REC	270569	1	11/20/2018 22:56	JE

Total Metals by ICP/MS SW6020B (SW3005A)

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

Analytical Environmental Services, Inc

Date: 27-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-120
Project Name: BFEL - Atlanta	Collection Date: 11/16/2018 3:16:00 PM
Lab ID: 1811G45-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270441	1	11/21/2018 15:16	KT
Copper	0.0145	0.00200		mg/L	270441	1	11/21/2018 15:16	KT
Lead	BRL	0.00100		mg/L	270441	1	11/21/2018 15:16	KT
Zinc	0.630	0.0100		mg/L	270441	1	11/21/2018 15:16	KT
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R385209	1	11/16/2018 22:04	GO
Sulfate	220	50		mg/L	R385287	50	11/21/2018 17:25	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270519	1	11/21/2018 21:04	KT
Copper	0.00378	0.00200		mg/L	270519	1	11/23/2018 22:23	KT
Lead	BRL	0.00100		mg/L	270519	1	11/21/2018 21:04	KT
Zinc	0.695	0.0100		mg/L	270519	1	11/23/2018 22:23	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270394	1	11/20/2018 12:25	UH
4,4'-DDE	BRL	0.00010		mg/L	270394	1	11/20/2018 12:25	UH
4,4'-DDT	BRL	0.00010		mg/L	270394	1	11/20/2018 12:25	UH
alpha-BHC	0.0015	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
alpha-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
beta-BHC	0.0020	0.00010		mg/L	270394	2	11/20/2018 13:54	UH
delta-BHC	0.0015	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
Dieldrin	BRL	0.00010		mg/L	270394	1	11/20/2018 12:25	UH
gamma-BHC	0.00014	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
gamma-Chlordane	BRL	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
Heptachlor	BRL	0.000050		mg/L	270394	1	11/20/2018 12:25	UH
Methoxychlor	BRL	0.00050		mg/L	270394	1	11/20/2018 12:25	UH
Toxaphene	BRL	0.0030		mg/L	270394	1	11/20/2018 12:25	UH
Surr: Decachlorobiphenyl	77.4	20.6-134		%REC	270394	1	11/20/2018 12:25	UH
Surr: Tetrachloro-m-xylene	87.7	37-128		%REC	270394	1	11/20/2018 12:25	UH
Surr: Tetrachloro-m-xylene	88.2	37-128		%REC	270394	2	11/20/2018 13:54	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-9				Lab ID:	1811G45-002		
Collection Date: 11/16/2018 11:46:00 AM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0871		0.00186	0.00200	mg/L	270441	1
Zinc	2.62		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Nitrate	0.74		0.055	0.25	mg/L	R385209	1
Sulfate	170		1.2	10	mg/L	R385287	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0709		0.00186	0.00200	mg/L	270519	1
Zinc	2.50		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0033		0.000050	0.00025	mg/L	270394	5
beta-BHC	0.0021		0.000019	0.00025	mg/L	270394	5
delta-BHC	0.0037		0.000046	0.00025	mg/L	270394	5
Dieldrin	0.00011		0.000005	0.00010	mg/L	270394	1
gamma-BHC	0.00021		0.000005	0.000050	mg/L	270394	1
Client Sample ID: TW-10				Lab ID:	1811G45-003		
Collection Date: 11/16/2018 1:10:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	13.4		0.00930	0.0100	mg/L	270441	5
Zinc	14.7		0.00840	0.0500	mg/L	270441	5
ION SCAN SW9056A							
Sulfate	750		5.8	50	mg/L	R385209	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	15.2		0.0372	0.0400	mg/L	270519	20
Zinc	16.2		0.0336	0.200	mg/L	270519	20
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
delta-BHC	0.000078		0.000009	0.000050	mg/L	270394	1
Client Sample ID: OW-2				Lab ID:	1811G45-004		
Collection Date: 11/16/2018 1:55:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
1,2,4-Trichlorobenzene	0.011		0.00039	0.0050	mg/L	270569	1
Chlorobenzene	0.27		0.0042	0.050	mg/L	270569	10
Total Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0630		0.00205	0.00500	mg/L	270441	1
Copper	0.0580		0.00186	0.00200	mg/L	270441	1
Zinc	3.16		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	530		5.8	50	mg/L	R385287	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0122		0.00205	0.00500	mg/L	270519	1
Copper	0.0576		0.00186	0.00200	mg/L	270519	1
Zinc	2.99		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: OW-2				Lab ID: 1811G45-004			
Collection Date: 11/16/2018 1:55:00 PM				Matrix: Groundwater			
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.059		0.0020	0.010	mg/L	270394	200
beta-BHC	0.0086		0.000038	0.00050	mg/L	270394	10
delta-BHC	0.22		0.0018	0.010	mg/L	270394	200
gamma-BHC	0.084		0.0011	0.010	mg/L	270394	200
Client Sample ID: OW-3				Lab ID: 1811G45-005			
Collection Date: 11/16/2018 2:55:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
Chlorobenzene	0.0062		0.00042	0.0050	mg/L	270569	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.638		0.00186	0.00200	mg/L	270441	1
Zinc	6.11		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Nitrate	0.59		0.055	0.25	mg/L	R385209	1
Sulfate	480		5.8	50	mg/L	R385287	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.644		0.00186	0.00200	mg/L	270519	1
Zinc	6.26		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0033		0.00010	0.00050	mg/L	270394	10
beta-BHC	0.0019		0.000038	0.00050	mg/L	270394	10
delta-BHC	0.0089		0.000091	0.00050	mg/L	270394	10
gamma-BHC	0.0015		0.000005	0.000050	mg/L	270394	1
Client Sample ID: OW-1				Lab ID: 1811G45-006			
Collection Date: 11/16/2018 3:50:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
Chlorobenzene	0.056		0.00042	0.0050	mg/L	270569	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.150		0.00205	0.00500	mg/L	270441	1
Copper	0.201		0.00186	0.00200	mg/L	270441	1
Zinc	4.61		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	500		5.8	50	mg/L	R385287	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0273		0.00205	0.00500	mg/L	270519	1
Copper	0.0572		0.00186	0.00200	mg/L	270519	1
Zinc	4.58		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
4,4'-DDD	0.00018		0.000014	0.00010	mg/L	270394	1
alpha-BHC	0.017		0.00025	0.0012	mg/L	270394	25
beta-BHC	0.0045		0.000095	0.0012	mg/L	270394	25
delta-BHC	0.023		0.00023	0.0012	mg/L	270394	25
Dieldrin	0.00029		0.000005	0.00010	mg/L	270394	1
gamma-BHC	0.0046		0.00013	0.0012	mg/L	270394	25

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-119				Lab ID:	1811G45-007		
Collection Date: 11/16/2018 12:18:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
1,4-Dioxane	0.22		0.063	0.15	mg/L	270569	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00806		0.00186	0.00200	mg/L	270441	1
Zinc	0.697		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	77		0.12	1.0	mg/L	R385209	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.627		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00063		0.000010	0.000050	mg/L	270394	1
beta-BHC	0.00054		0.000004	0.000050	mg/L	270394	1
delta-BHC	0.00058		0.000009	0.000050	mg/L	270394	1
gamma-BHC	0.000064		0.000005	0.000050	mg/L	270394	1
Client Sample ID: MW-120				Lab ID:	1811G45-008		
Collection Date: 11/16/2018 3:16:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
cis-1,2-Dichloroethene	0.016		0.00028	0.0050	mg/L	270569	1
Trichloroethene	0.0086		0.00030	0.0050	mg/L	270569	1
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0145		0.00186	0.00200	mg/L	270441	1
Zinc	0.630		0.00168	0.0100	mg/L	270441	1
ION SCAN SW9056A							
Sulfate	220		5.8	50	mg/L	R385287	50
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00378		0.00186	0.00200	mg/L	270519	1
Zinc	0.695		0.00168	0.0100	mg/L	270519	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0015		0.000010	0.000050	mg/L	270394	1
beta-BHC	0.0020		0.000008	0.00010	mg/L	270394	2
delta-BHC	0.0015		0.000009	0.000050	mg/L	270394	1
gamma-BHC	0.00014		0.000005	0.000050	mg/L	270394	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: AMEC E&I, Inc. -Kennesaw

AES Work Order Number: 1811G45

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.6 °C Cooler 2 Temperature 0.6 °C Cooler 3 Temperature 0.4 °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MH 11/16/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). EW 11/16/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). EW 11/16/18
Page 22 of 37

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Lab Order: 1811G45

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811G45-001A	TB-08	11/16/2018 12:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-002A	TW-9	11/16/2018 11:46:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-002B	TW-9	11/16/2018 11:46:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-002C	TW-9	11/16/2018 11:46:00AM	Groundwater	ION SCAN			11/16/2018
1811G45-002C	TW-9	11/16/2018 11:46:00AM	Groundwater	ION SCAN			11/21/2018
1811G45-002D	TW-9	11/16/2018 11:46:00AM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-002E	TW-9	11/16/2018 11:46:00AM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-002E	TW-9	11/16/2018 11:46:00AM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811G45-003A	TW-10	11/16/2018 1:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-003B	TW-10	11/16/2018 1:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-003C	TW-10	11/16/2018 1:10:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-003D	TW-10	11/16/2018 1:10:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-003E	TW-10	11/16/2018 1:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-003E	TW-10	11/16/2018 1:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811G45-004A	OW-2	11/16/2018 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-004A	OW-2	11/16/2018 1:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/21/2018
1811G45-004B	OW-2	11/16/2018 1:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-004C	OW-2	11/16/2018 1:55:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-004C	OW-2	11/16/2018 1:55:00PM	Groundwater	ION SCAN			11/21/2018
1811G45-004D	OW-2	11/16/2018 1:55:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-004E	OW-2	11/16/2018 1:55:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-004E	OW-2	11/16/2018 1:55:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811G45-005A	OW-3	11/16/2018 2:55:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-005B	OW-3	11/16/2018 2:55:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-005C	OW-3	11/16/2018 2:55:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-005C	OW-3	11/16/2018 2:55:00PM	Groundwater	ION SCAN			11/21/2018
1811G45-005D	OW-3	11/16/2018 2:55:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-005E	OW-3	11/16/2018 2:55:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-005E	OW-3	11/16/2018 2:55:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Lab Order: 1811G45

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811G45-006A	OW-1	11/16/2018 3:50:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-006B	OW-1	11/16/2018 3:50:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-006C	OW-1	11/16/2018 3:50:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-006C	OW-1	11/16/2018 3:50:00PM	Groundwater	ION SCAN			11/21/2018
1811G45-006D	OW-1	11/16/2018 3:50:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-006E	OW-1	11/16/2018 3:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-006E	OW-1	11/16/2018 3:50:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811G45-007A	MW-119	11/16/2018 12:18:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-007B	MW-119	11/16/2018 12:18:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-007C	MW-119	11/16/2018 12:18:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-007D	MW-119	11/16/2018 12:18:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-007E	MW-119	11/16/2018 12:18:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-007E	MW-119	11/16/2018 12:18:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018
1811G45-008A	MW-120	11/16/2018 3:16:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/20/2018 2:43:00PM	11/20/2018
1811G45-008B	MW-120	11/16/2018 3:16:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/20/2018 10:00:00AM	11/20/2018
1811G45-008C	MW-120	11/16/2018 3:16:00PM	Groundwater	ION SCAN			11/16/2018
1811G45-008C	MW-120	11/16/2018 3:16:00PM	Groundwater	ION SCAN			11/21/2018
1811G45-008D	MW-120	11/16/2018 3:16:00PM	Groundwater	Total Metals by ICP/MS		11/19/2018 3:46:00PM	11/21/2018
1811G45-008E	MW-120	11/16/2018 3:16:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/21/2018
1811G45-008E	MW-120	11/16/2018 3:16:00PM	Groundwater	Dissolved Metals by ICP/MS		11/21/2018 11:30:00AM	11/23/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270394

Sample ID: MB-270394	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385053							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270394	Analysis Date: 11/19/2018	Seq No: 8598856							
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	0.0005		86.1	20.6	134				
Surr: Tetrachloro-m-xylene	0.000376	0	0.0005		75.2	37	128				

Sample ID: LCS-270394	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385053							
Sample Type: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270394	Analysis Date: 11/19/2018	Seq No: 8598857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000934	0.00010	0.0010		93.4	61	127				
Dieldrin	0.000953	0.00010	0.0010		95.3	66.8	130				
gamma-BHC	0.000917	0.000050	0.0010		91.7	70.2	129				
Heptachlor	0.000877	0.000050	0.0010		87.7	65.1	131				
Surr: Decachlorobiphenyl	0.000414	0	0.0005		82.9	20.6	134				
Surr: Tetrachloro-m-xylene	0.000367	0	0.0005		73.4	37	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270394

Sample ID: 1811G70-001BMS	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385053							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270394	Analysis Date: 11/19/2018	Seq No: 8598861							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000395	0.00010	0.0010	0.00000949	38.6	42.4	138				S
Dieldrin	0.000380	0.00010	0.0010		38.0	44.9	138				S
gamma-BHC	0.000785	0.000050	0.0010		78.5	56.5	137				
Heptachlor	0.000332	0.000050	0.0010		33.2	43.6	134				S
Surr: Decachlorobiphenyl	0.000212	0	0.0005		42.4	20.6	134				
Surr: Tetrachloro-m-xylene	0.000152	0	0.0005		30.5	37	128				S

Sample ID: 1811G70-001BMSD	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385053							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270394	Analysis Date: 11/19/2018	Seq No: 8598862							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000306	0.00010	0.0010	0.00000949	29.7	42.4	138	0.0003954	25.5	20	SR
Dieldrin	0.000308	0.00010	0.0010		30.8	44.9	138	0.0003800	20.9	20	SR
gamma-BHC	0.000634	0.000050	0.0010		63.4	56.5	137	0.0007852	21.3	20	R
Heptachlor	0.000247	0.000050	0.0010		24.7	43.6	134	0.0003320	29.3	21.3	SR
Surr: Decachlorobiphenyl	0.000167	0	0.0005		33.5	20.6	134	0.0002119	0	0	
Surr: Tetrachloro-m-xylene	0.000110	0	0.0005		22.0	37	128	0.0001523	0	0	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270441

Sample ID: MB-270441	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/21/2018	Seq No: 8603366							
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-270441	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/21/2018	Seq No: 8603367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.09557	0.00500	0.1000		95.6	80	120				
Copper	0.09989	0.00200	0.1000		99.9	80	120				
Lead	0.09707	0.00100	0.1000		97.1	80	120				
Zinc	0.09457	0.0100	0.1000		94.6	80	120				

Sample ID: 1811F10-002DMS	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604857							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000	0.01068	-10.7	75	125				S
Copper	151.7	0.200	0.1000	147.6	4060	75	125				S
Lead	0.1242	0.100	0.1000	0.02967	94.6	75	125				
Zinc	319.5	1.00	0.1000	316.1	3400	75	125				S

Sample ID: 1811F10-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000	0.01068	-10.7	75	125	0	0	20	S
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270441

Sample ID: 1811F10-002DMSD	Client ID:	Units: mg/L	Prep Date: 11/19/2018	Run No: 385201							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270441	Analysis Date: 11/23/2018	Seq No: 8604858							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	147.0	0.200	0.1000	147.6	-642	75	125	151.7	3.15	20	S
Lead	0.1117	0.100	0.1000	0.02967	82.1	75	125	0.1242	10.6	20	
Zinc	310.2	1.00	0.1000	316.1	-5870	75	125	319.5	2.94	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: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270519

Sample ID: MB-270519	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/21/2018	Seq No: 8604582							
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-270519	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/21/2018	Seq No: 8604583							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.08438	0.00500	0.1000		84.4	80	120				
Copper	0.08818	0.00200	0.1000		88.2	80	120				
Lead	0.08517	0.00100	0.1000		85.2	80	120				
Zinc	0.08703	0.0100	0.1000		87.0	80	120				

Sample ID: 1811F10-002EMS	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000		0	75	125				S
Copper	33.90	0.200	0.1000	41.83	-7930	75	125				S
Lead	BRL	0.100	0.1000		0	75	125				S
Zinc	71.53	1.00	0.1000	89.25	-17700	75	125				S

Sample ID: 1811F10-002EMSD	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.500	0.1000		0	75	125	0	0	20	S
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 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270519

Sample ID: 1811F10-002EMSD	Client ID:	Units: mg/L	Prep Date: 11/21/2018	Run No: 385262							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270519	Analysis Date: 11/23/2018	Seq No: 8606660							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	33.74	0.200	0.1000	41.83	-8090	75	125	33.90	0.458	20	S
Lead	BRL	0.100	0.1000		0	75	125	0	0	20	S
Zinc	70.87	1.00	0.1000	89.25	-18400	75	125	71.53	0.940	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270569

Sample ID: MB-270569	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385134							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270569	Analysis Date: 11/20/2018	Seq No: 8600633							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270569

Sample ID: MB-270569	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385134							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270569	Analysis Date: 11/20/2018	Seq No: 8600633							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05042	0	0.0500		101	68	127				
Surr: Dibromofluoromethane	0.05264	0	0.0500		105	84.4	122				
Surr: Toluene-d8	0.04991	0	0.0500		99.8	80.1	116				

Sample ID: LCS-270569	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385134							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270569	Analysis Date: 11/20/2018	Seq No: 8600631							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.06291	0.0050	0.0500		126	69	136				
Benzene	0.05410	0.0050	0.0500		108	73.7	126				
Chlorobenzene	0.05139	0.0050	0.0500		103	73.5	124				
Toluene	0.05250	0.0050	0.0500		105	76.8	125				
Trichloroethene	0.05372	0.0050	0.0500		107	70.9	124				
Surr: 4-Bromofluorobenzene	0.04935	0	0.0500		98.7	68	127				
Surr: Dibromofluoromethane	0.05159	0	0.0500		103	84.4	122				
Surr: Toluene-d8	0.04941	0	0.0500		98.8	80.1	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: 270569

Sample ID: 1811G45-002AMS	Client ID: TW-9	Units: mg/L	Prep Date: 11/20/2018	Run No: 385134							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270569	Analysis Date: 11/20/2018	Seq No: 8600661							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.06402	0.0050	0.0500		128	65.7	143				
Benzene	0.05755	0.0050	0.0500		115	66.1	137				
Chlorobenzene	0.05564	0.0050	0.0500		111	70.9	132				
Toluene	0.05522	0.0050	0.0500		110	63.8	141				
Trichloroethene	0.05688	0.0050	0.0500		114	70.6	128				
Surr: 4-Bromofluorobenzene	0.04903	0	0.0500		98.1	68	127				
Surr: Dibromofluoromethane	0.05263	0	0.0500		105	84.4	122				
Surr: Toluene-d8	0.04933	0	0.0500		98.7	80.1	116				

Sample ID: 1811G45-002AMSD	Client ID: TW-9	Units: mg/L	Prep Date: 11/20/2018	Run No: 385134							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270569	Analysis Date: 11/20/2018	Seq No: 8600662							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.06670	0.0050	0.0500		133	65.7	143	0.06402	4.10	17.7	
Benzene	0.05774	0.0050	0.0500		115	66.1	137	0.05755	0.330	20	
Chlorobenzene	0.05517	0.0050	0.0500		110	70.9	132	0.05564	0.848	20	
Toluene	0.05472	0.0050	0.0500		109	63.8	141	0.05522	0.910	20	
Trichloroethene	0.05666	0.0050	0.0500		113	70.6	128	0.05688	0.388	20	
Surr: 4-Bromofluorobenzene	0.04932	0	0.0500		98.6	68	127	0.04903	0	0	
Surr: Dibromofluoromethane	0.05437	0	0.0500		109	84.4	122	0.05263	0	0	
Surr: Toluene-d8	0.04927	0	0.0500		98.5	80.1	116	0.04933	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: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: R385209

Sample ID: MB-R385209	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604166							
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-R385209	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604167							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	5.201	0.25	5.000		104	90	110				
Sulfate	25.00	1.0	25.00		100	90	110				

Sample ID: 1811F42-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604179							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	6.760	0.25	5.000	1.365	108	90	110				
Sulfate	26.15	1.0	25.00	1.225	99.7	90	110				

Sample ID: 1811F95-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604181							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	6.505	0.25	5.000	1.181	106	90	110				
Sulfate	25.80	1.0	25.00	0.7540	100	90	110				

Sample ID: 1811F42-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604180							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	6.798	0.25	5.000	1.365	109	90	110	6.760	0.552	20	
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Qualifiers:

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: R385209

Sample ID: 1811F42-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385209							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385209	Analysis Date: 11/16/2018	Seq No: 8604180							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	26.19	1.0	25.00	1.225	99.9	90	110	26.15	0.173	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
Project Name: BFEL - Atlanta
Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: R385287

Sample ID: MB-R385287	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604826							
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-R385287	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604825							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.189 0.25 5.000 104 90 110
 Sulfate 25.41 1.0 25.00 102 90 110

Sample ID: 1811J92-005AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604839							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 6.172 0.25 5.000 0.7324 109 90 110
 Sulfate 24.89 1.0 25.00 0.8734 96.1 90 110

Sample ID: 1811K36-002BMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604842							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 57.28 2.5 50.00 4.498 106 90 110
 Sulfate 272.1 10 250.0 30.03 96.8 90 110

Sample ID: 1811J92-005AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604840							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 6.168 0.25 5.000 0.7324 109 90 110 6.172 0.073 20

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL - Atlanta
 Workorder: 1811G45

ANALYTICAL QC SUMMARY REPORT

BatchID: R385287

Sample ID: 1811J92-005AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385287							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385287	Analysis Date: 11/21/2018	Seq No: 8604840							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	24.68	1.0	25.00	0.8734	95.2	90	110	24.89	0.849	20	
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Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 27, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL- Atlanta

Dear Rhonda Quinn:

Order No: 1811H56

Analytical Environmental Services, Inc. received 9 samples on 11/19/2018 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's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144				ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AES Access account.	Number of Containers			
PHONE: 770-421-3400		EMAIL:				Diss Metals 6020 Asy. Cup 8/19/18 Pest 8081A Nitrate 9056 Sulfate										
SAMPLED BY: D Howard, B Gresson		SIGNATURE: Daniel Howard				PRESERVATION (see codes)						REMARKS				
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)										
1	SW-2010-17	11/19/18	1040	X		SW	X	X	X							4
2	SW-2010-15		1054	X		SW	X	X	X							4
3	SW-2010-14		1108	X		SW	X	X	X							4
4	SW-2014-20		1140	X		SW	X	X	X							4
5	SW-2014-21		1205	X		SW	X	X	X							4
6	SW-2010-11		1218	X		SW	X	X	X							4
7	DUP-5		1200	X		SW	X	X	X							4
8	SW-2010-10		1242	X		SW	X	X	X							4
9	SW-2010-5		1305	X		SW	X	X	X							4
10	Temp Blank															
11																
12																
13																
14																
RELINQUISHED BY: Daniel R Howard		DATE/TIME: 11/19/18 14:55	RECEIVED BY: J McCoy		DATE/TIME: 11/19/18 14:55	PROJECT INFORMATION						RECEIPT				
1. Daniel R Howard		11/19/18 14:55	1. J McCoy		11/19/18 14:55	PROJECT NAME: BFEL Atlanta						Total # of Containers				
2.			2.			PROJECT #: 6122086154.29						Turnaround Time (TAT) Request				
3.			3.			SITE ADDRESS: 1525 Pine St NW Atlanta, GA						<input checked="" type="checkbox"/> Standard 5 Business Days				
SPECIAL INSTRUCTIONS/COMMENTS: Dissolved metals will be filtered by the lab		SHIPMENT METHOD				SEND REPORT TO: Rhonda Quinn						<input type="checkbox"/> 2 Business Day Rush				
		OUT: / /	VIA:		INVOICE TO:						<input type="checkbox"/> Next Business Day Rush					
		IN: / /	VIA:		(IF DIFFERENT FROM ABOVE)						<input type="checkbox"/> Same-Day Rush (auth req.)					
		client FedEx	UPS	US mail	client	Greyhound	QUOTE #:						STATE PROGRAM (if any): GA			
		other: DM	PO#:						E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>							
								DATA PACKAGE: I <input type="radio"/> II <input checked="" type="radio"/> III <input type="radio"/> IV <input type="radio"/>								

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-17
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 10:40:00 AM
Lab ID: 1811H56-001	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.4		0.055	0.25	mg/L	R385292	1	11/20/2018 12:48	GO
Sulfate	86		0.12	1.0	mg/L	R385292	1	11/20/2018 12:48	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	BRL		0.00205	0.00500	mg/L	270614	1	11/23/2018 15:50	KT
Copper	0.0133		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:40	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 15:50	KT
Zinc	0.677		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:40	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 16:55	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 16:55	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 16:55	UH
alpha-BHC	0.00020		0.000010	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
beta-BHC	0.00028		0.000004	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
delta-BHC	0.00013		0.000009	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
Dieldrin	0.0000088	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 16:55	UH
gamma-BHC	0.000068		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:55	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 16:55	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 16:55	UH
Surr: Decachlorobiphenyl	82.1		0	20.6-134	%REC	270486	1	11/20/2018 16:55	UH
Surr: Tetrachloro-m-xylene	73.4		0	37-128	%REC	270486	1	11/20/2018 16:55	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-15
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 10:54:00 AM
Lab ID: 1811H56-002	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.5		0.055	0.25	mg/L	R385292	1	11/20/2018 13:03	GO
Sulfate	92		0.12	1.0	mg/L	R385292	1	11/20/2018 13:03	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	BRL		0.00205	0.00500	mg/L	270614	1	11/23/2018 15:53	KT
Copper	0.0168		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:43	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 15:53	KT
Zinc	0.781		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:43	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 15:37	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 15:37	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 15:37	UH
alpha-BHC	0.00022		0.000010	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
beta-BHC	0.00029		0.000004	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
delta-BHC	0.00015		0.000009	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
Dieldrin	0.0000078	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 15:37	UH
gamma-BHC	0.000071		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:37	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 15:37	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 15:37	UH
Surr: Decachlorobiphenyl	77.9		0	20.6-134	%REC	270486	1	11/20/2018 15:37	UH
Surr: Tetrachloro-m-xylene	78.3		0	37-128	%REC	270486	1	11/20/2018 15:37	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-14
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 11:08:00 AM
Lab ID: 1811H56-003	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.5		0.055	0.25	mg/L	R385292	1	11/20/2018 13:18	GO
Sulfate	92		0.12	1.0	mg/L	R385292	1	11/20/2018 13:18	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	BRL		0.00205	0.00500	mg/L	270614	1	11/23/2018 16:06	KT
Copper	0.0177		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:46	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:06	KT
Zinc	0.871		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:46	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 17:06	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 17:06	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 17:06	UH
alpha-BHC	0.00021		0.000010	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
beta-BHC	0.00027		0.000004	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
delta-BHC	0.00014		0.000009	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
Dieldrin	0.0000080	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 17:06	UH
gamma-BHC	0.000070		0.000005	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 17:06	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 17:06	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 17:06	UH
Surr: Decachlorobiphenyl	79.9		0	20.6-134	%REC	270486	1	11/20/2018 17:06	UH
Surr: Tetrachloro-m-xylene	69.7		0	37-128	%REC	270486	1	11/20/2018 17:06	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-20
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 11:40:00 AM
Lab ID: 1811H56-004	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	5.9		0.055	0.25	mg/L	R385292	1	11/20/2018 13:33	GO
Sulfate	200		1.2	10	mg/L	R385292	10	11/20/2018 20:13	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	BRL		0.00205	0.00500	mg/L	270614	1	11/23/2018 16:09	KT
Copper	0.173		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:49	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:09	KT
Zinc	5.06		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:49	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 15:48	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 15:48	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 15:48	UH
alpha-BHC	0.00021		0.000010	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
beta-BHC	0.0013		0.000004	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
delta-BHC	0.00012		0.000009	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
Dieldrin	0.000026	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 15:48	UH
gamma-BHC	0.00012		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:48	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 15:48	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 15:48	UH
Surr: Decachlorobiphenyl	64.8		0	20.6-134	%REC	270486	1	11/20/2018 15:48	UH
Surr: Tetrachloro-m-xylene	77.4		0	37-128	%REC	270486	1	11/20/2018 15:48	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-21
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 12:05:00 PM
Lab ID: 1811H56-005	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	6.5		0.055	0.25	mg/L	R385292	1	11/20/2018 13:48	GO
Sulfate	200		1.2	10	mg/L	R385292	10	11/20/2018 20:28	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	BRL		0.00205	0.00500	mg/L	270614	1	11/23/2018 16:12	KT
Copper	0.227		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:53	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:12	KT
Zinc	5.70		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:53	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 15:59	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 15:59	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 15:59	UH
alpha-BHC	0.00017		0.000010	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
beta-BHC	0.0015		0.000004	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
delta-BHC	0.00013		0.000009	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
Dieldrin	0.000033	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 15:59	UH
gamma-BHC	0.00011		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 15:59	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 15:59	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 15:59	UH
Surr: Decachlorobiphenyl	63.1		0	20.6-134	%REC	270486	1	11/20/2018 15:59	UH
Surr: Tetrachloro-m-xylene	78.3		0	37-128	%REC	270486	1	11/20/2018 15:59	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-11
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 12:18:00 PM
Lab ID: 1811H56-006	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.5		0.055	0.25	mg/L	R385292	1	11/20/2018 14:03	GO
Sulfate	83		0.12	1.0	mg/L	R385292	1	11/20/2018 14:03	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	0.00271	J	0.00205	0.00500	mg/L	270614	1	11/23/2018 16:15	KT
Copper	0.0229		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:56	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:15	KT
Zinc	0.756		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:56	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 16:11	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 16:11	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 16:11	UH
alpha-BHC	0.00012		0.000010	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
beta-BHC	0.00016		0.000004	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
delta-BHC	0.000065		0.000009	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
Dieldrin	0.0000058	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 16:11	UH
gamma-BHC	0.000058		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:11	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 16:11	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 16:11	UH
Surr: Decachlorobiphenyl	76.1		0	20.6-134	%REC	270486	1	11/20/2018 16:11	UH
Surr: Tetrachloro-m-xylene	78.4		0	37-128	%REC	270486	1	11/20/2018 16:11	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
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- 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

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-5
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 12:00:00 PM
Lab ID: 1811H56-007	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.6		0.055	0.25	mg/L	R385292	1	11/20/2018 14:19	GO
Sulfate	84		0.12	1.0	mg/L	R385292	1	11/20/2018 14:19	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	0.00274	J	0.00205	0.00500	mg/L	270614	1	11/23/2018 16:19	KT
Copper	0.0217		0.00186	0.00200	mg/L	270614	1	11/26/2018 17:59	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:19	KT
Zinc	0.732		0.00168	0.0100	mg/L	270614	1	11/26/2018 17:59	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 16:22	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 16:22	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 16:22	UH
alpha-BHC	0.00012		0.000010	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
beta-BHC	0.00016		0.000004	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
delta-BHC	0.000061		0.000009	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
Dieldrin	0.0000059	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 16:22	UH
gamma-BHC	0.000056		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:22	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 16:22	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 16:22	UH
Surr: Decachlorobiphenyl	79.7		0	20.6-134	%REC	270486	1	11/20/2018 16:22	UH
Surr: Tetrachloro-m-xylene	81.1		0	37-128	%REC	270486	1	11/20/2018 16:22	UH

Qualifiers:

- * Value exceeds maximum contaminant level
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- 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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-10
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 12:42:00 PM
Lab ID: 1811H56-008	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.2		0.055	0.25	mg/L	R385292	1	11/20/2018 14:34	GO
Sulfate	74		0.12	1.0	mg/L	R385292	1	11/20/2018 14:34	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	0.00301	J	0.00205	0.00500	mg/L	270614	1	11/23/2018 16:22	KT
Copper	0.00816		0.00186	0.00200	mg/L	270614	1	11/26/2018 18:02	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:22	KT
Zinc	0.399		0.00168	0.0100	mg/L	270614	1	11/26/2018 18:02	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 16:33	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 16:33	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 16:33	UH
alpha-BHC	0.00011		0.000010	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
beta-BHC	0.000050		0.000004	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
delta-BHC	0.000058		0.000009	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
Dieldrin	0.0000054	J	0.000005	0.00010	mg/L	270486	1	11/20/2018 16:33	UH
gamma-BHC	0.000052		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:33	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 16:33	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 16:33	UH
Surr: Decachlorobiphenyl	86.5		0	20.6-134	%REC	270486	1	11/20/2018 16:33	UH
Surr: Tetrachloro-m-xylene	70.5		0	37-128	%REC	270486	1	11/20/2018 16:33	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: SW-2010-5
Project Name: BFEL- Atlanta	Collection Date: 11/19/2018 1:05:00 PM
Lab ID: 1811H56-009	Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
ION SCAN SW9056A									
Nitrate	1.2		0.055	0.25	mg/L	R385292	1	11/20/2018 14:49	GO
Sulfate	74		0.12	1.0	mg/L	R385292	1	11/20/2018 14:49	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)									
Arsenic	0.00251	J	0.00205	0.00500	mg/L	270614	1	11/23/2018 16:25	KT
Copper	0.00807		0.00186	0.00200	mg/L	270614	1	11/26/2018 18:05	KT
Lead	BRL		0.000621	0.00100	mg/L	270614	1	11/23/2018 16:25	KT
Zinc	0.403		0.00168	0.0100	mg/L	270614	1	11/26/2018 18:05	KT
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)									
4,4'-DDD	BRL		0.000014	0.00010	mg/L	270486	1	11/20/2018 16:44	UH
4,4'-DDE	BRL		0.000010	0.00010	mg/L	270486	1	11/20/2018 16:44	UH
4,4'-DDT	BRL		0.000007	0.00010	mg/L	270486	1	11/20/2018 16:44	UH
alpha-BHC	0.000049	J	0.000010	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
alpha-Chlordane	BRL		0.000020	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
beta-BHC	0.000040	J	0.000004	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
delta-BHC	0.000020	J	0.000009	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
Dieldrin	BRL		0.000005	0.00010	mg/L	270486	1	11/20/2018 16:44	UH
gamma-BHC	0.000016	J	0.000005	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
gamma-Chlordane	BRL		0.000013	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
Heptachlor	BRL		0.000005	0.000050	mg/L	270486	1	11/20/2018 16:44	UH
Methoxychlor	BRL		0.000030	0.00050	mg/L	270486	1	11/20/2018 16:44	UH
Toxaphene	BRL		0.000062	0.0030	mg/L	270486	1	11/20/2018 16:44	UH
Surr: Decachlorobiphenyl	81.1		0	20.6-134	%REC	270486	1	11/20/2018 16:44	UH
Surr: Tetrachloro-m-xylene	81.3		0	37-128	%REC	270486	1	11/20/2018 16:44	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: SW-2010-17				Lab ID:	1811H56-001		
Collection Date: 11/19/2018 10:40:00 AM				Matrix:	Surface Water		
ION SCAN SW9056A							
Nitrate	1.4		0.055	0.25	mg/L	R385292	1
Sulfate	86		0.12	1.0	mg/L	R385292	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0133		0.00186	0.00200	mg/L	270614	1
Zinc	0.677		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00020		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.00028		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.00013		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000068		0.000005	0.000050	mg/L	270486	1
Client Sample ID: SW-2010-15				Lab ID:	1811H56-002		
Collection Date: 11/19/2018 10:54:00 AM				Matrix:	Surface Water		
ION SCAN SW9056A							
Nitrate	1.5		0.055	0.25	mg/L	R385292	1
Sulfate	92		0.12	1.0	mg/L	R385292	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0168		0.00186	0.00200	mg/L	270614	1
Zinc	0.781		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00022		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.00029		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.00015		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000071		0.000005	0.000050	mg/L	270486	1
Client Sample ID: SW-2010-14				Lab ID:	1811H56-003		
Collection Date: 11/19/2018 11:08:00 AM				Matrix:	Surface Water		
ION SCAN SW9056A							
Nitrate	1.5		0.055	0.25	mg/L	R385292	1
Sulfate	92		0.12	1.0	mg/L	R385292	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0177		0.00186	0.00200	mg/L	270614	1
Zinc	0.871		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00021		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.00027		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.00014		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000070		0.000005	0.000050	mg/L	270486	1
Client Sample ID: SW-2010-20				Lab ID:	1811H56-004		
Collection Date: 11/19/2018 11:40:00 AM				Matrix:	Surface Water		
ION SCAN SW9056A							
Nitrate	5.9		0.055	0.25	mg/L	R385292	1
Sulfate	200		1.2	10	mg/L	R385292	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.173		0.00186	0.00200	mg/L	270614	1

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: SW-2010-20				Lab ID: 1811H56-004			
Collection Date: 11/19/2018 11:40:00 AM				Matrix: Surface Water			
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	5.06		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00021		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.0013		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.00012		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.00012		0.000005	0.000050	mg/L	270486	1
Client Sample ID: SW-2010-21				Lab ID: 1811H56-005			
Collection Date: 11/19/2018 12:05:00 PM				Matrix: Surface Water			
ION SCAN SW9056A							
Nitrate	6.5		0.055	0.25	mg/L	R385292	1
Sulfate	200		1.2	10	mg/L	R385292	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.227		0.00186	0.00200	mg/L	270614	1
Zinc	5.70		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00017		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.0015		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.00013		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.00011		0.000005	0.000050	mg/L	270486	1
Client Sample ID: SW-2010-11				Lab ID: 1811H56-006			
Collection Date: 11/19/2018 12:18:00 PM				Matrix: Surface Water			
ION SCAN SW9056A							
Nitrate	1.5		0.055	0.25	mg/L	R385292	1
Sulfate	83		0.12	1.0	mg/L	R385292	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0229		0.00186	0.00200	mg/L	270614	1
Zinc	0.756		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00012		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.00016		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.000065		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000058		0.000005	0.000050	mg/L	270486	1
Client Sample ID: DUP-5				Lab ID: 1811H56-007			
Collection Date: 11/19/2018 12:00:00 PM				Matrix: Surface Water			
ION SCAN SW9056A							
Nitrate	1.6		0.055	0.25	mg/L	R385292	1
Sulfate	84		0.12	1.0	mg/L	R385292	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0217		0.00186	0.00200	mg/L	270614	1
Zinc	0.732		0.00168	0.0100	mg/L	270614	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00012		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.00016		0.000004	0.000050	mg/L	270486	1

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
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Client Sample ID: DUP-5				Lab ID: 1811H56-007			
Collection Date: 11/19/2018 12:00:00 PM				Matrix: Surface Water			

CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)

delta-BHC	0.000061		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000056		0.000005	0.000050	mg/L	270486	1

Client Sample ID: SW-2010-10				Lab ID: 1811H56-008			
Collection Date: 11/19/2018 12:42:00 PM				Matrix: Surface Water			

ION SCAN SW9056A

Nitrate	1.2		0.055	0.25	mg/L	R385292	1
Sulfate	74		0.12	1.0	mg/L	R385292	1

Dissolved Metals by ICP/MS SW6020B (SW3005A)

Copper	0.00816		0.00186	0.00200	mg/L	270614	1
Zinc	0.399		0.00168	0.0100	mg/L	270614	1

CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)

alpha-BHC	0.00011		0.000010	0.000050	mg/L	270486	1
beta-BHC	0.000050		0.000004	0.000050	mg/L	270486	1
delta-BHC	0.000058		0.000009	0.000050	mg/L	270486	1
gamma-BHC	0.000052		0.000005	0.000050	mg/L	270486	1

Client Sample ID: SW-2010-5				Lab ID: 1811H56-009			
Collection Date: 11/19/2018 1:05:00 PM				Matrix: Surface Water			

ION SCAN SW9056A

Nitrate	1.2		0.055	0.25	mg/L	R385292	1
Sulfate	74		0.12	1.0	mg/L	R385292	1

Dissolved Metals by ICP/MS SW6020B (SW3005A)

Copper	0.00807		0.00186	0.00200	mg/L	270614	1
Zinc	0.403		0.00168	0.0100	mg/L	270614	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: AMEC E&I, Inc. -Kennesaw

AES Work Order Number: 1811H56

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 3.1 °C Cooler 2 Temperature 5.7 °C Cooler 3 Temperature 5.5 °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AP 11/19/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt. I certify that I have completed sections 16-27 (dated initials). AP 11/19/18

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH. I certify that I have completed sections 28-30 (dated initials). AP 11/19/18

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Lab Order: 1811H56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811H56-001A	SW-2010-17	11/19/2018 10:40:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-001A	SW-2010-17	11/19/2018 10:40:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-001B	SW-2010-17	11/19/2018 10:40:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-001C	SW-2010-17	11/19/2018 10:40:00AM	Surface Water	ION SCAN			11/20/2018
1811H56-002A	SW-2010-15	11/19/2018 10:54:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-002A	SW-2010-15	11/19/2018 10:54:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-002B	SW-2010-15	11/19/2018 10:54:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-002C	SW-2010-15	11/19/2018 10:54:00AM	Surface Water	ION SCAN			11/20/2018
1811H56-003A	SW-2010-14	11/19/2018 11:08:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-003A	SW-2010-14	11/19/2018 11:08:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-003B	SW-2010-14	11/19/2018 11:08:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-003C	SW-2010-14	11/19/2018 11:08:00AM	Surface Water	ION SCAN			11/20/2018
1811H56-004A	SW-2010-20	11/19/2018 11:40:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-004A	SW-2010-20	11/19/2018 11:40:00AM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-004B	SW-2010-20	11/19/2018 11:40:00AM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-004C	SW-2010-20	11/19/2018 11:40:00AM	Surface Water	ION SCAN			11/20/2018
1811H56-005A	SW-2010-21	11/19/2018 12:05:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-005A	SW-2010-21	11/19/2018 12:05:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-005B	SW-2010-21	11/19/2018 12:05:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-005C	SW-2010-21	11/19/2018 12:05:00PM	Surface Water	ION SCAN			11/20/2018
1811H56-006A	SW-2010-11	11/19/2018 12:18:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-006A	SW-2010-11	11/19/2018 12:18:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-006B	SW-2010-11	11/19/2018 12:18:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-006C	SW-2010-11	11/19/2018 12:18:00PM	Surface Water	ION SCAN			11/20/2018
1811H56-007A	DUP-5	11/19/2018 12:00:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-007A	DUP-5	11/19/2018 12:00:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-007B	DUP-5	11/19/2018 12:00:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-007C	DUP-5	11/19/2018 12:00:00PM	Surface Water	ION SCAN			11/20/2018
1811H56-008A	SW-2010-10	11/19/2018 12:42:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Lab Order: 1811H56

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811H56-008A	SW-2010-10	11/19/2018 12:42:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-008B	SW-2010-10	11/19/2018 12:42:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-008C	SW-2010-10	11/19/2018 12:42:00PM	Surface Water	ION SCAN			11/20/2018
1811H56-009A	SW-2010-5	11/19/2018 1:05:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/23/2018
1811H56-009A	SW-2010-5	11/19/2018 1:05:00PM	Surface Water	Dissolved Metals by ICP/MS		11/23/2018 12:35:00PM	11/26/2018
1811H56-009B	SW-2010-5	11/19/2018 1:05:00PM	Surface Water	TCL-CHLORINATED PESTICIDES		11/20/2018 2:00:00PM	11/20/2018
1811H56-009C	SW-2010-5	11/19/2018 1:05:00PM	Surface Water	ION SCAN			11/20/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: 270486

Sample ID: MB-270486	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385054							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270486	Analysis Date: 11/20/2018	Seq No: 8599964							
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	0.000491	0	0.0005		98.2	20.6	134				
Surr: Tetrachloro-m-xylene	0.000448	0	0.0005		89.6	37	128				

Sample ID: LCS-270486	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385054							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270486	Analysis Date: 11/20/2018	Seq No: 8599965							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001039	0.00010	0.0010		104	61	127				
Dieldrin	0.000970	0.00010	0.0010		97.1	66.8	130				
gamma-BHC	0.001021	0.000050	0.0010		102	70.2	129				
Heptachlor	0.001032	0.000050	0.0010		103	65.1	131				
Surr: Decachlorobiphenyl	0.000468	0	0.0005		93.7	20.6	134				
Surr: Tetrachloro-m-xylene	0.000466	0	0.0005		93.3	37	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: 270486

Sample ID: 1811G73-001FMS	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385054							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270486	Analysis Date: 11/20/2018	Seq No: 8599960							
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	0.0010		94.4	42.4	138				
Dieldrin	0.001007	0.00010	0.0010		101	44.9	138				
gamma-BHC	0.001095	0.000050	0.0010		109	56.5	137				
Heptachlor	0.000989	0.000050	0.0010		98.9	43.6	134				
Surr: Decachlorobiphenyl	0.000498	0	0.0005		99.5	20.6	134				
Surr: Tetrachloro-m-xylene	0.000468	0	0.0005		93.7	37	128				

Sample ID: 1811G73-001FMSD	Client ID:	Units: mg/L	Prep Date: 11/20/2018	Run No: 385054							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270486	Analysis Date: 11/20/2018	Seq No: 8599962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000941	0.00010	0.0010		94.1	42.4	138	0.0009442	0.384	20	
Dieldrin	0.000945	0.00010	0.0010		94.5	44.9	138	0.001007	6.34	20	
gamma-BHC	0.000999	0.000050	0.0010		99.9	56.5	137	0.001095	9.15	20	
Heptachlor	0.000924	0.000050	0.0010		92.4	43.6	134	0.0009888	6.73	21.3	
Surr: Decachlorobiphenyl	0.000474	0	0.0005		94.9	20.6	134	0.0004976	0	0	
Surr: Tetrachloro-m-xylene	0.000423	0	0.0005		84.6	37	128	0.0004685	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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: 270614

Sample ID: MB-270614	Client ID:	Units: mg/L	Prep Date: 11/23/2018	Run No: 385360							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270614	Analysis Date: 11/23/2018	Seq No: 8607666							
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-270614	Client ID:	Units: mg/L	Prep Date: 11/23/2018	Run No: 385360							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270614	Analysis Date: 11/23/2018	Seq No: 8607667							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.08681	0.00500	0.1000		86.8	80	120				
Copper	0.09202	0.00200	0.1000		92.0	80	120				
Lead	0.08765	0.00100	0.1000		87.7	80	120				
Zinc	0.09158	0.0100	0.1000		91.6	80	120				

Sample ID: 1811524-003DMS	Client ID:	Units: mg/L	Prep Date: 11/23/2018	Run No: 385360							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270614	Analysis Date: 11/23/2018	Seq No: 8607669							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1150	0.00500	0.1000	0.01575	99.3	75	125				
Copper	0.09732	0.00200	0.1000		97.3	75	125				
Lead	0.08370	0.00100	0.1000		83.7	75	125				
Zinc	0.09419	0.0100	0.1000	0.002514	91.7	75	125				

Sample ID: 1811524-003DMSD	Client ID:	Units: mg/L	Prep Date: 11/23/2018	Run No: 385360							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270614	Analysis Date: 11/23/2018	Seq No: 8607670							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1144	0.00500	0.1000	0.01575	98.7	75	125	0.1150	0.518	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: 270614

Sample ID: 1811524-003DMSD	Client ID:	Units: mg/L	Prep Date: 11/23/2018	Run No: 385360							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270614	Analysis Date: 11/23/2018	Seq No: 8607670							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.09900	0.00200	0.1000		99.0	75	125	0.09732	1.71	20	
Lead	0.08279	0.00100	0.1000		82.8	75	125	0.08370	1.09	20	
Zinc	0.1119	0.0100	0.1000	0.002514	109	75	125	0.09419	17.1	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: Wood Environment & Infrastructure
Project Name: BFEL- Atlanta
Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: R385292

Sample ID: MB-R385292	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8604998							
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-R385292	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8604997							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.082 0.25 5.000 102 90 110
 Sulfate 23.95 1.0 25.00 95.8 90 110

Sample ID: 1811134-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8605017							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.486 0.25 5.000 0.1560 107 90 110
 Sulfate 24.59 1.0 25.00 0.1547 97.7 90 110

Sample ID: 1811134-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8605019							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.020 0.25 5.000 100 90 110
 Sulfate 24.82 1.0 25.00 0.2679 98.2 90 110

Sample ID: 1811134-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8605018							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.428 0.25 5.000 0.1560 105 90 110 5.486 1.06 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: Wood Environment & Infrastructure
 Project Name: BFEL- Atlanta
 Workorder: 1811H56

ANALYTICAL QC SUMMARY REPORT

BatchID: R385292

Sample ID: 1811H34-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 385292							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R385292	Analysis Date: 11/20/2018	Seq No: 8605018							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	24.85	1.0	25.00	0.1547	98.8	90	110	24.59	1.07	20
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Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 20, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL Atlanta

Dear Rhonda Quinn:

Order No: 1811796

Analytical Environmental Services, Inc. received 5 samples on 11/9/2018 6:40:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E&IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144				ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: 770-421-3400		EMAIL:				VOC list Pest 8081A Nitrate 9056 Total metals 6030 Diss metals 6020										REMARKS		
SAMPLED BY: D Howard, E Guillen, B Updyke		SIGNATURE: <i>Daniel Howard</i>				PRESERVATION (see codes)												
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						REMARKS					
		DATE	TIME				H	I	I	I	N	I						
1	TB-03	11/9/18	0900	X		W	X									2		
2	MW-26		1227	X		GW	X	X	X	X	X					7		
3	MW-107D		1410	X		GW	X	X	X	X	X					7		
4	MW-116		1230	X		GW	X	X	X	X	X					7		
5	MW-110		1545	X		GW	X	X	X	X	X					7		
6	Temp Blank																	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

Relinquishment of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-03
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 9:00:00 AM
Lab ID: 1811796-001	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	270314	1	11/16/2018 19:04	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 19:04	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 19:04	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 19:04	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 19:04	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 19:04	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 19:04	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 19:04	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 19:04	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 19:04	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270314	1	11/16/2018 19:04	JE
Surr: Dibromofluoromethane	104	84.4-122		%REC	270314	1	11/16/2018 19:04	JE
Surr: Toluene-d8	99.3	80.1-116		%REC	270314	1	11/16/2018 19:04	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-26
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 12:27:00 PM
Lab ID: 1811796-002	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	270314	1	11/16/2018 20:43	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 20:43	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 20:43	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 20:43	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 20:43	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 20:43	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 20:43	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 20:43	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 20:43	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 20:43	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270314	1	11/16/2018 20:43	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270314	1	11/16/2018 20:43	JE
Surr: Toluene-d8	96.8	80.1-116		%REC	270314	1	11/16/2018 20:43	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-26
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 12:27:00 PM
Lab ID: 1811796-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 22:50	KP
Copper	0.0101	0.00200		mg/L	270079	1	11/12/2018 22:50	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 22:50	KP
Zinc	0.228	0.0100		mg/L	270079	1	11/12/2018 22:50	KP
ION SCAN SW9056A								
Nitrate	2.7	0.25		mg/L	R384776	1	11/09/2018 19:04	GO
Sulfate	230	10		mg/L	R384776	10	11/09/2018 20:20	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:09	KT
Copper	0.0111	0.00200		mg/L	270138	1	11/13/2018 21:09	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:09	KT
Zinc	0.257	0.0100		mg/L	270138	1	11/13/2018 21:09	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 13:50	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 13:50	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 13:50	UH
alpha-BHC	0.000054	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
beta-BHC	0.00067	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
delta-BHC	0.000075	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 13:50	UH
gamma-BHC	0.000052	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 13:50	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 13:50	UH
Toxaphene	0.0050	0.0030		mg/L	270102	1	11/13/2018 13:50	UH
Surr: Decachlorobiphenyl	85.6	20.6-134		%REC	270102	1	11/13/2018 13:50	UH
Surr: Tetrachloro-m-xylene	76.9	37-128		%REC	270102	1	11/13/2018 13:50	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-107D
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 2:10:00 PM
Lab ID: 1811796-003	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	270314	1	11/16/2018 21:08	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 21:08	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 21:08	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 21:08	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 21:08	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 21:08	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 21:08	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 21:08	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 21:08	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 21:08	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270314	1	11/16/2018 21:08	JE
Surr: Dibromofluoromethane	97.4	84.4-122		%REC	270314	1	11/16/2018 21:08	JE
Surr: Toluene-d8	102	80.1-116		%REC	270314	1	11/16/2018 21:08	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-107D
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 2:10:00 PM
Lab ID: 1811796-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:06	KP
Copper	0.00282	0.00200		mg/L	270079	1	11/12/2018 23:06	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 23:06	KP
Zinc	BRL	0.0100		mg/L	270079	1	11/12/2018 23:06	KP
ION SCAN SW9056A								
Nitrate	2.5	0.25		mg/L	R384776	1	11/09/2018 19:19	GO
Sulfate	86	1.0		mg/L	R384776	1	11/09/2018 19:19	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:25	KT
Copper	0.00202	0.00200		mg/L	270138	1	11/13/2018 21:25	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:25	KT
Zinc	BRL	0.0100		mg/L	270138	1	11/13/2018 21:25	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 14:01	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 14:01	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 14:01	UH
alpha-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
beta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
delta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 14:01	UH
gamma-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 14:01	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 14:01	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 14:01	UH
Surr: Decachlorobiphenyl	78.1	20.6-134		%REC	270102	1	11/13/2018 14:01	UH
Surr: Tetrachloro-m-xylene	77.3	37-128		%REC	270102	1	11/13/2018 14:01	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-116
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 12:30:00 PM
Lab ID: 1811796-004	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	270314	1	11/16/2018 21:33	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 21:33	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 21:33	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 21:33	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 21:33	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 21:33	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 21:33	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 21:33	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 21:33	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 21:33	JE
Surr: 4-Bromofluorobenzene	104	68-127		%REC	270314	1	11/16/2018 21:33	JE
Surr: Dibromofluoromethane	108	84.4-122		%REC	270314	1	11/16/2018 21:33	JE
Surr: Toluene-d8	99.7	80.1-116		%REC	270314	1	11/16/2018 21:33	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-116
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 12:30:00 PM
Lab ID: 1811796-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:09	KP
Copper	2.54	0.00200		mg/L	270079	1	11/12/2018 23:09	KP
Lead	0.00140	0.00100		mg/L	270079	1	11/12/2018 23:09	KP
Zinc	8.48	0.0200		mg/L	270079	2	11/13/2018 15:11	KP
ION SCAN SW9056A								
Nitrate	39	2.5		mg/L	R384776	10	11/09/2018 20:35	GO
Sulfate	470	10		mg/L	R384776	10	11/09/2018 20:35	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:28	KT
Copper	2.83	0.00200		mg/L	270138	1	11/13/2018 21:28	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:28	KT
Zinc	7.95	0.0100		mg/L	270138	1	11/13/2018 21:28	KT
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 14:12	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 14:12	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 14:12	UH
alpha-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
beta-BHC	0.00030	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
delta-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 14:12	UH
gamma-BHC	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 14:12	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 14:12	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 14:12	UH
Surr: Decachlorobiphenyl	53.9	20.6-134		%REC	270102	1	11/13/2018 14:12	UH
Surr: Tetrachloro-m-xylene	72.7	37-128		%REC	270102	1	11/13/2018 14:12	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-110
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 3:45:00 PM
Lab ID: 1811796-005	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	270314	1	11/16/2018 21:57	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
1,4-Dioxane	BRL	0.15		mg/L	270314	1	11/16/2018 21:57	JE
2-Butanone	BRL	0.050		mg/L	270314	1	11/16/2018 21:57	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270314	1	11/16/2018 21:57	JE
Acetone	BRL	0.050		mg/L	270314	1	11/16/2018 21:57	JE
Benzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Carbon disulfide	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Chlorobenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Chloroethane	BRL	0.010		mg/L	270314	1	11/16/2018 21:57	JE
Chloroform	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Chloromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Cyclohexane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Ethylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270314	1	11/16/2018 21:57	JE
Isopropylbenzene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Methylene chloride	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Naphthalene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Styrene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Tetrachloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Tetrahydrofuran	BRL	0.010		mg/L	270314	1	11/16/2018 21:57	JE
Toluene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Trichloroethene	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Vinyl chloride	BRL	0.0020		mg/L	270314	1	11/16/2018 21:57	JE
Xylenes, Total	BRL	0.0050		mg/L	270314	1	11/16/2018 21:57	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270314	1	11/16/2018 21:57	JE
Surr: Dibromofluoromethane	97.6	84.4-122		%REC	270314	1	11/16/2018 21:57	JE
Surr: Toluene-d8	102	80.1-116		%REC	270314	1	11/16/2018 21:57	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-110
Project Name: BFEL Atlanta	Collection Date: 11/9/2018 3:45:00 PM
Lab ID: 1811796-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:12	KP
Copper	0.401	0.00200		mg/L	270079	1	11/12/2018 23:12	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 23:12	KP
Zinc	5.76	0.0200		mg/L	270079	2	11/13/2018 15:14	KP
ION SCAN SW9056A								
Nitrate	2.2	0.25		mg/L	R384776	1	11/09/2018 21:20	GO
Sulfate	290	10		mg/L	R384776	10	11/09/2018 20:50	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270138	1	11/13/2018 21:32	KT
Copper	0.418	0.00200		mg/L	270138	1	11/13/2018 21:32	KT
Lead	BRL	0.00100		mg/L	270138	1	11/13/2018 21:32	KT
Zinc	5.61	0.0100		mg/L	270138	1	11/13/2018 21:32	KT
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270102	1	11/13/2018 14:23	UH
4,4'-DDE	BRL	0.00010		mg/L	270102	1	11/13/2018 14:23	UH
4,4'-DDT	BRL	0.00010		mg/L	270102	1	11/13/2018 14:23	UH
alpha-BHC	0.0016	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
alpha-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
beta-BHC	0.00049	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
delta-BHC	0.0026	0.00025		mg/L	270102	5	11/13/2018 14:46	UH
Dieldrin	BRL	0.00010		mg/L	270102	1	11/13/2018 14:23	UH
gamma-BHC	0.0015	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
gamma-Chlordane	BRL	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
Heptachlor	BRL	0.000050		mg/L	270102	1	11/13/2018 14:23	UH
Methoxychlor	BRL	0.00050		mg/L	270102	1	11/13/2018 14:23	UH
Toxaphene	BRL	0.0030		mg/L	270102	1	11/13/2018 14:23	UH
Surr: Decachlorobiphenyl	83.6	20.6-134		%REC	270102	1	11/13/2018 14:23	UH
Surr: Tetrachloro-m-xylene	83.4	37-128		%REC	270102	1	11/13/2018 14:23	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-26				Lab ID: 1811796-002			
Collection Date: 11/9/2018 12:27:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0101		0.00186	0.00200	mg/L	270079	1
Zinc	0.228		0.00168	0.0100	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	2.7		0.055	0.25	mg/L	R384776	1
Sulfate	230		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0111		0.00186	0.00200	mg/L	270138	1
Zinc	0.257		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.000054		0.000010	0.000050	mg/L	270102	1
beta-BHC	0.00067		0.000004	0.000050	mg/L	270102	1
delta-BHC	0.000075		0.000009	0.000050	mg/L	270102	1
gamma-BHC	0.000052		0.000005	0.000050	mg/L	270102	1
Toxaphene	0.0050		0.000062	0.0030	mg/L	270102	1
Client Sample ID: MW-107D				Lab ID: 1811796-003			
Collection Date: 11/9/2018 2:10:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00282		0.00186	0.00200	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	2.5		0.055	0.25	mg/L	R384776	1
Sulfate	86		0.12	1.0	mg/L	R384776	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00202		0.00186	0.00200	mg/L	270138	1
Client Sample ID: MW-116				Lab ID: 1811796-004			
Collection Date: 11/9/2018 12:30:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	2.54		0.00186	0.00200	mg/L	270079	1
Lead	0.00140		0.000621	0.00100	mg/L	270079	1
Zinc	8.48		0.00336	0.0200	mg/L	270079	2
ION SCAN SW9056A							
Nitrate	39		0.55	2.5	mg/L	R384776	10
Sulfate	470		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	2.83		0.00186	0.00200	mg/L	270138	1
Zinc	7.95		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
beta-BHC	0.00030		0.000004	0.000050	mg/L	270102	1
Client Sample ID: MW-110				Lab ID: 1811796-005			
Collection Date: 11/9/2018 3:45:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.401		0.00186	0.00200	mg/L	270079	1
Zinc	5.76		0.00336	0.0200	mg/L	270079	2

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-110				Lab ID:	1811796-005		
Collection Date: 11/9/2018 3:45:00 PM				Matrix:	Groundwater		
ION SCAN SW9056A							
Nitrate	2.2		0.055	0.25	mg/L	R384776	1
Sulfate	290		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.418		0.00186	0.00200	mg/L	270138	1
Zinc	5.61		0.00168	0.0100	mg/L	270138	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.0016		0.000010	0.000050	mg/L	270102	1
beta-BHC	0.00049		0.000004	0.000050	mg/L	270102	1
delta-BHC	0.0026		0.000046	0.00025	mg/L	270102	5
gamma-BHC	0.0015		0.000005	0.000050	mg/L	270102	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: AMEC/KENNESAW

AES Work Order Number: 1811796

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature 1.6 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 11/9/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

This section only applies to samples where pH can be checked at Sample Receipt

I certify that I have completed sections 16-27 (dated initials). MJ 11/9/18

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
29. Containers meet preservation guidelines?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MJ 11/9/18

Locked

Client: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Lab Order: 1811796

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811796-001A	TB-03	11/9/2018 9:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811796-002A	MW-26	11/9/2018 12:27:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811796-002B	MW-26	11/9/2018 12:27:00PM	Groundwater	ION SCAN			11/09/2018
1811796-002C	MW-26	11/9/2018 12:27:00PM	Groundwater	APPENDIX I METALS		11/12/2018 2:19:00PM	11/12/2018
1811796-002C	MW-26	11/9/2018 12:27:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811796-002D	MW-26	11/9/2018 12:27:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811796-002E	MW-26	11/9/2018 12:27:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811796-003A	MW-107D	11/9/2018 2:10:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811796-003B	MW-107D	11/9/2018 2:10:00PM	Groundwater	ION SCAN			11/09/2018
1811796-003C	MW-107D	11/9/2018 2:10:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811796-003D	MW-107D	11/9/2018 2:10:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811796-003E	MW-107D	11/9/2018 2:10:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811796-004A	MW-116	11/9/2018 12:30:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811796-004B	MW-116	11/9/2018 12:30:00PM	Groundwater	ION SCAN			11/09/2018
1811796-004C	MW-116	11/9/2018 12:30:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811796-004C	MW-116	11/9/2018 12:30:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/13/2018
1811796-004D	MW-116	11/9/2018 12:30:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811796-004E	MW-116	11/9/2018 12:30:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018
1811796-005A	MW-110	11/9/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/15/2018 12:12:00PM	11/16/2018
1811796-005B	MW-110	11/9/2018 3:45:00PM	Groundwater	ION SCAN			11/09/2018
1811796-005C	MW-110	11/9/2018 3:45:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811796-005C	MW-110	11/9/2018 3:45:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/13/2018
1811796-005D	MW-110	11/9/2018 3:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/13/2018 6:15:00PM	11/13/2018
1811796-005E	MW-110	11/9/2018 3:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/13/2018 9:00:00AM	11/13/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270079

Sample ID: MB-270079	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586216							
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-270079	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586217							
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	0.1000		102	80	120				
Copper	0.1051	0.00200	0.1000		105	80	120				
Lead	0.1042	0.00100	0.1000		104	80	120				
Zinc	0.1007	0.0100	0.1000		101	80	120				

Sample ID: 1811796-002CMS	Client ID: MW-26	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586223							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1012	0.00500	0.1000		101	75	125				
Copper	0.1024	0.00200	0.1000	0.01012	92.3	75	125				
Lead	0.09324	0.00100	0.1000		93.2	75	125				
Zinc	0.3144	0.0100	0.1000	0.2285	86.0	75	125				

Sample ID: 1811796-002CMSD	Client ID: MW-26	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1010	0.00500	0.1000		101	75	125	0.1012	0.225	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270079

Sample ID: 1811796-002CMSD	Client ID: MW-26	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1001	0.00200	0.1000	0.01012	90.0	75	125	0.1024	2.30	20	
Lead	0.09223	0.00100	0.1000		92.2	75	125	0.09324	1.09	20	
Zinc	0.3096	0.0100	0.1000	0.2285	81.2	75	125	0.3144	1.54	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270102

Sample ID: MB-270102	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586907							
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	0.000393	0	0.0005		78.6	20.6	134				
Surr: Tetrachloro-m-xylene	0.000333	0	0.0005		66.5	37	128				

Sample ID: LCS-270102	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586908							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000980	0.00010	0.0010		98.0	61	127				
Dieldrin	0.000934	0.00010	0.0010		93.4	66.8	130				
gamma-BHC	0.000976	0.000050	0.0010		97.6	70.2	129				
Heptachlor	0.000931	0.000050	0.0010		93.1	65.1	131				
Surr: Decachlorobiphenyl	0.000405	0	0.0005		81.0	20.6	134				
Surr: Tetrachloro-m-xylene	0.000353	0	0.0005		70.5	37	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270102

Sample ID: 1811906-004BMS	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586914							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000988	0.00010	0.0010		98.8	42.4	138				
Dieldrin	0.000918	0.00010	0.0010		91.8	44.9	138				
gamma-BHC	0.000945	0.000050	0.0010		94.5	56.5	137				
Heptachlor	0.000974	0.000050	0.0010		97.3	43.6	134				
Surr: Decachlorobiphenyl	0.000376	0	0.0005		75.3	20.6	134				
Surr: Tetrachloro-m-xylene	0.000339	0	0.0005		67.7	37	128				

Sample ID: 1811906-004BMSD	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384585							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270102	Analysis Date: 11/12/2018	Seq No: 8586915							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.000955	0.00010	0.0010		95.5	42.4	138	0.0009878	3.39	20	
Dieldrin	0.000875	0.00010	0.0010		87.5	44.9	138	0.0009177	4.77	20	
gamma-BHC	0.000898	0.000050	0.0010		89.8	56.5	137	0.0009454	5.18	20	
Heptachlor	0.000913	0.000050	0.0010		91.3	43.6	134	0.0009735	6.42	21.3	
Surr: Decachlorobiphenyl	0.000374	0	0.0005		74.8	20.6	134	0.0003763	0	0	
Surr: Tetrachloro-m-xylene	0.000321	0	0.0005		64.2	37	128	0.0003387	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270138

Sample ID: MB-270138	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588383							
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-270138	Client ID:	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588384							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1005	0.00500	0.1000		100	80	120				
Copper	0.1025	0.00200	0.1000		103	80	120				
Lead	0.09674	0.00100	0.1000		96.7	80	120				
Zinc	0.1033	0.0100	0.1000	0.004565	98.7	80	120				

Sample ID: 1811796-002DMS	Client ID: MW-26	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588386							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1008	0.00500	0.1000		101	75	125				
Copper	0.1114	0.00200	0.1000	0.01111	100	75	125				
Lead	0.08509	0.00100	0.1000		85.1	75	125				
Zinc	0.3632	0.0100	0.1000	0.2573	106	75	125				

Sample ID: 1811796-002DMSD	Client ID: MW-26	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588387							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1022	0.00500	0.1000		102	75	125	0.1008	1.41	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270138

Sample ID: 1811796-002DMSD	Client ID: MW-26	Units: mg/L	Prep Date: 11/13/2018	Run No: 384648
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270138	Analysis Date: 11/13/2018	Seq No: 8588387

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Copper	0.1117	0.00200	0.1000	0.01111	101	75	125	0.1114	0.287	20	
Lead	0.08657	0.00100	0.1000		86.6	75	125	0.08509	1.72	20	
Zinc	0.3493	0.0100	0.1000	0.2573	91.9	75	125	0.3632	3.92	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: MB-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595412							
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									
Isobutyl Alcohol	BRL	0.20									
Isopropylbenzene	BRL	0.0050									
Methylene chloride	BRL	0.0050									
Naphthalene	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: MB-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Styrene	BRL	0.0050									
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	0.05808	0	0.0500		116	68	127				
Surr: Dibromofluoromethane	0.05147	0	0.0500		103	84.4	122				
Surr: Toluene-d8	0.05050	0	0.0500		101	80.1	116				

Sample ID: LCS-270314	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384765							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/15/2018	Seq No: 8595415							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.01813	0.0050	0.0200		90.6	69	136				
Benzene	0.01748	0.0050	0.0200		87.4	73.7	126				
Chlorobenzene	0.01698	0.0050	0.0200		84.9	73.5	124				
Toluene	0.01761	0.0050	0.0200		88.0	76.8	125				
Trichloroethene	0.01770	0.0050	0.0200		88.5	70.9	124				
Surr: 4-Bromofluorobenzene	0.04851	0	0.0500		97.0	68	127				
Surr: Dibromofluoromethane	0.04966	0	0.0500		99.3	84.4	122				
Surr: Toluene-d8	0.04993	0	0.0500		99.9	80.1	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: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: 1811A80-002AMS	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597080							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.6162	0.050	0.5000		123	65.7	143				
Benzene	0.5515	0.050	0.5000		110	66.1	137				
Chlorobenzene	0.5433	0.050	0.5000		109	70.9	132				
Toluene	0.5364	0.050	0.5000		107	63.8	141				
Trichloroethene	1.656	0.050	0.5000	1.043	122	70.6	128				
Surr: 4-Bromofluorobenzene	0.4946	0	0.5000		98.9	68	127				
Surr: Dibromofluoromethane	0.5109	0	0.5000		102	84.4	122				
Surr: Toluene-d8	0.4891	0	0.5000		97.8	80.1	116				

Sample ID: 1811A80-002ADUP	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597079							
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	0.050						0	0	30	
1,1,2,2-Tetrachloroethane	BRL	0.050						0	0	30	
1,1,2-Trichloroethane	BRL	0.050						0	0	30	
1,1-Dichloroethane	BRL	0.050						0	0	30	
1,1-Dichloroethene	BRL	0.050						0	0	30	
1,1-Dichloropropene	BRL	0.050						0	0	30	
1,2,4-Trichlorobenzene	BRL	0.050						0	0	30	
1,2-Dichloroethane	BRL	0.050						0	0	30	
1,2-Dichloropropane	BRL	0.050						0	0	30	
1,4-Dioxane	BRL	1.5						0	0	30	
2-Butanone	BRL	0.50						0	0	30	
4-Methyl-2-pentanone	BRL	0.10						0	0	30	
Acetone	BRL	0.50						0	0	30	
Benzene	BRL	0.050						0	0	30	
Carbon disulfide	BRL	0.050						0	0	30	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: 270314

Sample ID: 1811A80-002ADUP	Client ID:	Units: mg/L	Prep Date: 11/15/2018	Run No: 384986							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270314	Analysis Date: 11/19/2018	Seq No: 8597079							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Carbon tetrachloride	BRL	0.050						0	0	30	
Chlorobenzene	BRL	0.050						0	0	30	
Chloroethane	BRL	0.10						0	0	30	
Chloroform	BRL	0.050						0	0	30	
Chloromethane	BRL	0.10						0	0	30	
cis-1,2-Dichloroethene	1.262	0.050						1.249	1.05	30	
Cyclohexane	BRL	0.050						0	0	30	
Ethylbenzene	BRL	0.050						0	0	30	
Isobutyl Alcohol	BRL	2.0						0	0	30	
Isopropylbenzene	BRL	0.050						0	0	30	
Methylene chloride	BRL	0.050						0	0	30	
Naphthalene	BRL	0.050						0.01670	0	30	
Styrene	BRL	0.050						0	0	30	
Tetrachloroethene	BRL	0.050						0.01190	0	30	
Tetrahydrofuran	BRL	0.10						0	0	30	
Toluene	BRL	0.050						0	0	30	
trans-1,2-Dichloroethene	BRL	0.050						0	0	30	
Trichloroethene	1.076	0.050						1.043	3.11	30	
Trichlorofluoromethane	BRL	0.050						0	0	30	
Vinyl chloride	BRL	0.020						0	0	30	
Xylenes, Total	BRL	0.050						0	0	30	
Surr: 4-Bromofluorobenzene	0.5033	0	0.5000		101	68	127	0.4930	0	0	
Surr: Dibromofluoromethane	0.5050	0	0.5000		101	84.4	122	0.5087	0	0	
Surr: Toluene-d8	0.4860	0	0.5000		97.2	80.1	116	0.4874	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: Wood Environment & Infrastructure
Project Name: BFEL Atlanta
Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: R384776

Sample ID: MB-R384776	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591494							
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-R384776	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591493							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.099 0.25 5.000 102 90 110
 Sulfate 24.69 1.0 25.00 98.8 90 110

Sample ID: 1811900-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 256.5 12 250.0 103 90 110
 Sulfate 1228 50 1250 91.64 90.9 90 110

Sample ID: 1811902-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591529							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 261.4 12 250.0 105 90 110
 Sulfate 1241 50 1250 19.60 97.7 90 110

Sample ID: 1811900-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591527							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 257.6 12 250.0 103 90 110 256.5 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: Wood Environment & Infrastructure
 Project Name: BFEL Atlanta
 Workorder: 1811796

ANALYTICAL QC SUMMARY REPORT

BatchID: R384776

Sample ID: 1811900-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384776
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591527

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	1224	50	1250	91.64	90.6	90	110	1228	0.316	20	

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



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 20, 2018

Rhonda Quinn
Wood Environment & Infrastructure
1075 Big Shanty Rd NW
Kennesaw GA 30144

RE: BFEL-Atlanta

Dear Rhonda Quinn:

Order No: 1811840

Analytical Environmental Services, Inc. received 8 samples on 11/8/2018 5:38:00 PM for the analyses presented in following report.

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

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/18-06/30/19.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/18-06/30/19 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.

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

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

Sincerely,

Ioana Pacurar
Project Manager



CHAIN OF CUSTODY

COMPANY: Wood E+IS		ADDRESS: 1075 Big Shanty Rd, Ste 100 Kennesaw, GA 30144			ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers
PHONE: 770-421-3400		EMAIL:			VOC list 8260 Pest 8081A Nitrate 9056 Sulfate Tetraethyls 6020 As, Cu, Pb, Zn Diss. Metals As, Cu, Pb, Zn 6020						REMARKS		
SAMPLED BY: D Howard, E Guillen, B Updyke		SIGNATURE: <i>Daniel L Howard</i>			PRESERVATION (see codes)								
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)						REMARKS	
		DATE	TIME				H	I	I	N	I		
1	TB-02	11/8/18	0900	X		W	X						2
2	TW-11		1252	X		GW		X	X	X	X		5
3	MW-25		1515	X		GW	X	X	X	X	X		7
4	MW-104A		1525	X		GW	X	X	X	X	X		7
5	MW-104D		1545	X		GW	X	X	X	X	X		7
6	DUP-1		1200	X		GW	X						2
7	MW-108		1245	X		GW	X	X	X	X	X		7
8	MW-112		1155	X		GW	X	X	X	X	X		7
9													
10													
11													
12													
13													
14													
RELINQUISHED BY:		DATE/TIME:		RECEIVED BY:		DATE/TIME:		PROJECT INFORMATION				RECEIPT	
1. <i>Daniel L Howard</i>		11/8/18 1641		2. <i>Cheryl</i>		11-8-18 4:14P		PROJECT NAME: BFEL Atlanta				Total # of Containers	
2. <i>Cheryl</i>		11-8-18 5:20		2. <i>Ann Petrolis</i>		11/8/18 17:38		PROJECT #: 6122080154				Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: 1525 Pine St Atlanta GA				<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS: Lab will filter dissolved metals.				SHIPMENT METHOD				SEND REPORT TO: Rhonda Quinn				STATE PROGRAM (if any): _____	
				OUT: / / VIA:				INVOICE TO (IF DIFFERENT FROM ABOVE):				E-mail? <input checked="" type="checkbox"/> Fax? <input type="checkbox"/>	
				IN: / / VIA:				QUOTE #: _____ PO#: _____				DATA PACKAGE: I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	
				client FedEx UPS US mail courier									
				other: _____									

Client: Wood Environment & Infrastructure
Project: BFEL-Atlanta
Lab ID: 1811840

Case Narrative

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1811840-005A, -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TB-02
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 9:00:00 AM
Lab ID: 1811840-001	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	270152	1	11/16/2018 19:29	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
1,4-Dioxane	BRL	0.15		mg/L	270152	1	11/16/2018 19:29	JE
2-Butanone	BRL	0.050		mg/L	270152	1	11/16/2018 19:29	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270152	1	11/16/2018 19:29	JE
Acetone	BRL	0.050		mg/L	270152	1	11/16/2018 19:29	JE
Benzene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Carbon disulfide	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Chlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Chloroethane	BRL	0.010		mg/L	270152	1	11/16/2018 19:29	JE
Chloroform	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Chloromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Cyclohexane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Ethylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270152	1	11/16/2018 19:29	JE
Isopropylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Methylene chloride	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Naphthalene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Styrene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Tetrachloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Tetrahydrofuran	BRL	0.010		mg/L	270152	1	11/16/2018 19:29	JE
Toluene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Trichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Vinyl chloride	BRL	0.0020		mg/L	270152	1	11/16/2018 19:29	JE
Xylenes, Total	BRL	0.0050		mg/L	270152	1	11/16/2018 19:29	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270152	1	11/16/2018 19:29	JE
Surr: Dibromofluoromethane	104	84.4-122		%REC	270152	1	11/16/2018 19:29	JE
Surr: Toluene-d8	99.6	80.1-116		%REC	270152	1	11/16/2018 19:29	JE

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: TW-11
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 12:52:00 PM
Lab ID: 1811840-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:44	KP
Copper	0.146	0.00200		mg/L	270079	1	11/12/2018 23:44	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 23:44	KP
Zinc	0.551	0.0100		mg/L	270079	1	11/12/2018 23:44	KP
ION SCAN SW9056A								
Nitrate	5.2	0.25		mg/L	R384687	1	11/08/2018 19:44	GO
Sulfate	170	10		mg/L	R384776	10	11/09/2018 13:00	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:44	JW
Copper	0.157	0.00200		mg/L	270082	1	11/13/2018 13:44	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:44	JW
Zinc	0.598	0.0100		mg/L	270082	1	11/13/2018 13:44	JW
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270006	1	11/09/2018 18:29	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 18:29	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 18:29	UH
alpha-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
beta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
delta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 18:29	UH
gamma-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 18:29	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 18:29	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 18:29	UH
Surr: Decachlorobiphenyl	59.3	20.6-134		%REC	270006	1	11/09/2018 18:29	UH
Surr: Tetrachloro-m-xylene	66.6	37-128		%REC	270006	1	11/09/2018 18:29	UH

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-25
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:15:00 PM
Lab ID: 1811840-003	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	270152	1	11/16/2018 23:12	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
1,4-Dioxane	BRL	0.15		mg/L	270152	1	11/16/2018 23:12	JE
2-Butanone	BRL	0.050		mg/L	270152	1	11/16/2018 23:12	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270152	1	11/16/2018 23:12	JE
Acetone	BRL	0.050		mg/L	270152	1	11/16/2018 23:12	JE
Benzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Carbon disulfide	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Chlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Chloroethane	BRL	0.010		mg/L	270152	1	11/16/2018 23:12	JE
Chloroform	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Chloromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Cyclohexane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Ethylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270152	1	11/16/2018 23:12	JE
Isopropylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Methylene chloride	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Naphthalene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Styrene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Tetrachloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Tetrahydrofuran	BRL	0.010		mg/L	270152	1	11/16/2018 23:12	JE
Toluene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Trichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Vinyl chloride	BRL	0.0020		mg/L	270152	1	11/16/2018 23:12	JE
Xylenes, Total	BRL	0.0050		mg/L	270152	1	11/16/2018 23:12	JE
Surr: 4-Bromofluorobenzene	102	68-127		%REC	270152	1	11/16/2018 23:12	JE
Surr: Dibromofluoromethane	105	84.4-122		%REC	270152	1	11/16/2018 23:12	JE
Surr: Toluene-d8	97.5	80.1-116		%REC	270152	1	11/16/2018 23:12	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-25
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:15:00 PM
Lab ID: 1811840-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:48	KP
Copper	0.306	0.00200		mg/L	270079	1	11/12/2018 23:48	KP
Lead	0.0321	0.00100		mg/L	270079	1	11/12/2018 23:48	KP
Zinc	3.41	0.0100		mg/L	270079	1	11/12/2018 23:48	KP
ION SCAN SW9056A								
Nitrate	1.5	0.25		mg/L	R384687	1	11/08/2018 20:00	GO
Sulfate	260	10		mg/L	R384776	10	11/09/2018 13:15	GO
Dissolved Metals by ICP/MS SW6020B					(SW3005A)			
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:47	JW
Copper	0.326	0.00200		mg/L	270082	1	11/13/2018 13:47	JW
Lead	0.0333	0.00100		mg/L	270082	1	11/13/2018 13:47	JW
Zinc	3.73	0.0100		mg/L	270082	1	11/13/2018 13:47	JW
CHLORINATED PESTICIDES, TCL SW8081B					(SW3510C)			
4,4'-DDD	BRL	0.00010		mg/L	270006	1	11/09/2018 18:40	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 18:40	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 18:40	UH
alpha-BHC	0.000068	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
beta-BHC	0.0043	0.00025		mg/L	270006	5	11/12/2018 13:01	UH
delta-BHC	0.000075	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 18:40	UH
gamma-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 18:40	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 18:40	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 18:40	UH
Surr: Decachlorobiphenyl	73.1	20.6-134		%REC	270006	1	11/09/2018 18:40	UH
Surr: Tetrachloro-m-xylene	48.5	37-128		%REC	270006	1	11/09/2018 18:40	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-104A
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:25:00 PM
Lab ID: 1811840-004	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	270152	1	11/16/2018 23:37	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
1,4-Dioxane	BRL	0.15		mg/L	270152	1	11/16/2018 23:37	JE
2-Butanone	BRL	0.050		mg/L	270152	1	11/16/2018 23:37	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270152	1	11/16/2018 23:37	JE
Acetone	BRL	0.050		mg/L	270152	1	11/16/2018 23:37	JE
Benzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Carbon disulfide	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Chlorobenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Chloroethane	BRL	0.010		mg/L	270152	1	11/16/2018 23:37	JE
Chloroform	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Chloromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Cyclohexane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Ethylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270152	1	11/16/2018 23:37	JE
Isopropylbenzene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Methylene chloride	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Naphthalene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Styrene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Tetrachloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Tetrahydrofuran	BRL	0.010		mg/L	270152	1	11/16/2018 23:37	JE
Toluene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Trichloroethene	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Vinyl chloride	BRL	0.0020		mg/L	270152	1	11/16/2018 23:37	JE
Xylenes, Total	BRL	0.0050		mg/L	270152	1	11/16/2018 23:37	JE
Surr: 4-Bromofluorobenzene	103	68-127		%REC	270152	1	11/16/2018 23:37	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270152	1	11/16/2018 23:37	JE
Surr: Toluene-d8	99.5	80.1-116		%REC	270152	1	11/16/2018 23:37	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-104A
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:25:00 PM
Lab ID: 1811840-004	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:51	KP
Copper	0.00245	0.00200		mg/L	270079	1	11/12/2018 23:51	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 23:51	KP
Zinc	BRL	0.0100		mg/L	270079	1	11/12/2018 23:51	KP
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R384687	1	11/08/2018 20:15	GO
Sulfate	110	10		mg/L	R384776	10	11/09/2018 13:30	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:50	JW
Copper	BRL	0.00200		mg/L	270082	1	11/13/2018 13:50	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:50	JW
Zinc	BRL	0.0100		mg/L	270082	1	11/13/2018 13:50	JW
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270006	1	11/09/2018 19:14	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 19:14	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 19:14	UH
alpha-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
beta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
delta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 19:14	UH
gamma-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 19:14	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 19:14	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 19:14	UH
Surr: Decachlorobiphenyl	57.2	20.6-134		%REC	270006	1	11/09/2018 19:14	UH
Surr: Tetrachloro-m-xylene	74.9	37-128		%REC	270006	1	11/09/2018 19:14	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-104D
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:45:00 PM
Lab ID: 1811840-005	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	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,1,2,2-Tetrachloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,1,2-Trichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,1-Dichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,1-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,1-Dichloropropene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,2,4-Trichlorobenzene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,2-Dichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,2-Dichloropropane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
1,4-Dioxane	38	15		mg/L	270152	100	11/17/2018 14:56	JE
2-Butanone	140	50		mg/L	270152	1000	11/16/2018 22:22	JE
4-Methyl-2-pentanone	66	10		mg/L	270152	1000	11/16/2018 22:22	JE
Acetone	160	50		mg/L	270152	1000	11/16/2018 22:22	JE
Benzene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Carbon disulfide	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Carbon tetrachloride	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Chlorobenzene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Chloroethane	BRL	1.0		mg/L	270152	100	11/17/2018 14:56	JE
Chloroform	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Chloromethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
cis-1,2-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Cyclohexane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Ethylbenzene	3.8	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Isobutyl Alcohol	BRL	20		mg/L	270152	100	11/17/2018 14:56	JE
Isopropylbenzene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Methylene chloride	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Naphthalene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Styrene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Tetrachloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Tetrahydrofuran	49	5.0		mg/L	270152	5000	11/19/2018 14:55	JE
Toluene	40	5.0		mg/L	270152	1000	11/16/2018 22:22	JE
trans-1,2-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Trichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Trichlorofluoromethane	BRL	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Vinyl chloride	BRL	0.20		mg/L	270152	100	11/17/2018 14:56	JE
Xylenes, Total	18	0.50		mg/L	270152	100	11/17/2018 14:56	JE
Surr: 4-Bromofluorobenzene	98.1	68-127		%REC	270152	5000	11/19/2018 14:55	JE
Surr: 4-Bromofluorobenzene	97.2	68-127		%REC	270152	100	11/17/2018 14:56	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270152	1000	11/16/2018 22:22	JE
Surr: Dibromofluoromethane	99.1	84.4-122		%REC	270152	5000	11/19/2018 14:55	JE
Surr: Dibromofluoromethane	103	84.4-122		%REC	270152	100	11/17/2018 14:56	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-104D
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 3:45:00 PM
Lab ID: 1811840-005	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)								
Surr: Dibromofluoromethane	106	84.4-122		%REC	270152	1000	11/16/2018 22:22	JE
Surr: Toluene-d8	98.8	80.1-116		%REC	270152	5000	11/19/2018 14:55	JE
Surr: Toluene-d8	98.9	80.1-116		%REC	270152	1000	11/16/2018 22:22	JE
Surr: Toluene-d8	101	80.1-116		%REC	270152	100	11/17/2018 14:56	JE
Total Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270079	1	11/12/2018 23:54	KP
Copper	0.00417	0.00200		mg/L	270079	1	11/12/2018 23:54	KP
Lead	BRL	0.00100		mg/L	270079	1	11/12/2018 23:54	KP
Zinc	0.0279	0.0100		mg/L	270079	1	11/12/2018 23:54	KP
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R384687	1	11/08/2018 21:15	GO
Sulfate	BRL	1.0		mg/L	R384687	1	11/08/2018 21:15	GO
Dissolved Metals by ICP/MS SW6020B (SW3005A)								
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:54	JW
Copper	BRL	0.00200		mg/L	270082	1	11/13/2018 13:54	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:54	JW
Zinc	0.0245	0.0100		mg/L	270082	1	11/13/2018 13:54	JW
CHLORINATED PESTICIDES, TCL SW8081B (SW3510C)								
4,4'-DDD	BRL	0.00010		mg/L	270006	1	11/09/2018 19:25	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 19:25	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 19:25	UH
alpha-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
beta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
delta-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 19:25	UH
gamma-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 19:25	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 19:25	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 19:25	UH
Surr: Decachlorobiphenyl	53.2	20.6-134		%REC	270006	1	11/09/2018 19:25	UH
Surr: Tetrachloro-m-xylene	92.6	37-128		%REC	270006	1	11/09/2018 19:25	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-1
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 12:00:00 PM
Lab ID: 1811840-006	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	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,1,2,2-Tetrachloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,1,2-Trichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,1-Dichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,1-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,1-Dichloropropene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,2,4-Trichlorobenzene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,2-Dichloroethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,2-Dichloropropane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
1,4-Dioxane	54	15		mg/L	270152	100	11/17/2018 15:21	JE
2-Butanone	140	50		mg/L	270152	1000	11/16/2018 22:47	JE
4-Methyl-2-pentanone	68	10		mg/L	270152	1000	11/16/2018 22:47	JE
Acetone	150	50		mg/L	270152	1000	11/16/2018 22:47	JE
Benzene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Carbon disulfide	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Carbon tetrachloride	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Chlorobenzene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Chloroethane	BRL	1.0		mg/L	270152	100	11/17/2018 15:21	JE
Chloroform	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Chloromethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
cis-1,2-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Cyclohexane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Ethylbenzene	3.8	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Isobutyl Alcohol	BRL	20		mg/L	270152	100	11/17/2018 15:21	JE
Isopropylbenzene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Methylene chloride	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Naphthalene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Styrene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Tetrachloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Tetrahydrofuran	55	5.0		mg/L	270152	5000	11/19/2018 15:20	JE
Toluene	40	5.0		mg/L	270152	1000	11/16/2018 22:47	JE
trans-1,2-Dichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Trichloroethene	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Trichlorofluoromethane	BRL	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Vinyl chloride	BRL	0.20		mg/L	270152	100	11/17/2018 15:21	JE
Xylenes, Total	18	0.50		mg/L	270152	100	11/17/2018 15:21	JE
Surr: 4-Bromofluorobenzene	98.8	68-127		%REC	270152	5000	11/19/2018 15:20	JE
Surr: 4-Bromofluorobenzene	97.5	68-127		%REC	270152	100	11/17/2018 15:21	JE
Surr: 4-Bromofluorobenzene	104	68-127		%REC	270152	1000	11/16/2018 22:47	JE
Surr: Dibromofluoromethane	92.7	84.4-122		%REC	270152	5000	11/19/2018 15:20	JE
Surr: Dibromofluoromethane	104	84.4-122		%REC	270152	100	11/17/2018 15:21	JE

Qualifiers:

- * Value exceeds maximum contaminant level
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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: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: DUP-1
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 12:00:00 PM
Lab ID: 1811840-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Surr: Dibromofluoromethane	109	84.4-122		%REC	270152	1000	11/16/2018 22:47	JE
Surr: Toluene-d8	104	80.1-116		%REC	270152	5000	11/19/2018 15:20	JE
Surr: Toluene-d8	101	80.1-116		%REC	270152	100	11/17/2018 15:21	JE
Surr: Toluene-d8	101	80.1-116		%REC	270152	1000	11/16/2018 22:47	JE

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-108
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 12:45:00 PM
Lab ID: 1811840-007	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	270152	1	11/17/2018 00:02	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
1,4-Dioxane	BRL	0.15		mg/L	270152	1	11/17/2018 00:02	JE
2-Butanone	BRL	0.050		mg/L	270152	1	11/17/2018 00:02	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270152	1	11/17/2018 00:02	JE
Acetone	BRL	0.050		mg/L	270152	1	11/17/2018 00:02	JE
Benzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Carbon disulfide	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Chlorobenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Chloroethane	BRL	0.010		mg/L	270152	1	11/17/2018 00:02	JE
Chloroform	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Chloromethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Cyclohexane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Ethylbenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270152	1	11/17/2018 00:02	JE
Isopropylbenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Methylene chloride	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Naphthalene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Styrene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Tetrachloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Tetrahydrofuran	BRL	0.010		mg/L	270152	1	11/17/2018 00:02	JE
Toluene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Trichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Vinyl chloride	BRL	0.0020		mg/L	270152	1	11/17/2018 00:02	JE
Xylenes, Total	BRL	0.0050		mg/L	270152	1	11/17/2018 00:02	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270152	1	11/17/2018 00:02	JE
Surr: Dibromofluoromethane	109	84.4-122		%REC	270152	1	11/17/2018 00:02	JE
Surr: Toluene-d8	99	80.1-116		%REC	270152	1	11/17/2018 00:02	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Analytical Environmental Services, Inc

Date: 20-Nov-18

Client: Wood Environment & Infrastructure	Client Sample ID: MW-108
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 12:45:00 PM
Lab ID: 1811840-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270079	1	11/13/2018 00:07	KP
Copper	0.186	0.00200		mg/L	270079	1	11/13/2018 00:07	KP
Lead	BRL	0.00100		mg/L	270079	1	11/13/2018 00:07	KP
Zinc	2.32	0.0100		mg/L	270079	1	11/13/2018 00:07	KP
ION SCAN SW9056A								
Nitrate	0.26	0.25		mg/L	R384687	1	11/08/2018 21:30	GO
Sulfate	220	10		mg/L	R384776	10	11/09/2018 13:45	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	BRL	0.00500		mg/L	270082	1	11/13/2018 13:57	JW
Copper	0.199	0.00200		mg/L	270082	1	11/13/2018 13:57	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 13:57	JW
Zinc	2.51	0.0100		mg/L	270082	1	11/13/2018 13:57	JW
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	0.00019	0.00010		mg/L	270006	1	11/09/2018 19:36	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 19:36	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 19:36	UH
alpha-BHC	0.0030	0.00025		mg/L	270006	5	11/12/2018 13:34	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
beta-BHC	0.0012	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
delta-BHC	0.0014	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 19:36	UH
gamma-BHC	0.00017	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 19:36	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 19:36	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 19:36	UH
Surr: Decachlorobiphenyl	74	20.6-134		%REC	270006	1	11/09/2018 19:36	UH
Surr: Tetrachloro-m-xylene	33.8	37-128	S	%REC	270006	1	11/09/2018 19:36	UH

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-112
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 11:55:00 AM
Lab ID: 1811840-008	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	270152	1	11/17/2018 00:26	JE
1,1,2,2-Tetrachloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,1,2-Trichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,1-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,1-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,1-Dichloropropene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,2,4-Trichlorobenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,2-Dichloroethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,2-Dichloropropane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
1,4-Dioxane	BRL	0.15		mg/L	270152	1	11/17/2018 00:26	JE
2-Butanone	BRL	0.050		mg/L	270152	1	11/17/2018 00:26	JE
4-Methyl-2-pentanone	BRL	0.010		mg/L	270152	1	11/17/2018 00:26	JE
Acetone	BRL	0.050		mg/L	270152	1	11/17/2018 00:26	JE
Benzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Carbon disulfide	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Carbon tetrachloride	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Chlorobenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Chloroethane	BRL	0.010		mg/L	270152	1	11/17/2018 00:26	JE
Chloroform	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Chloromethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
cis-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Cyclohexane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Ethylbenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Isobutyl Alcohol	BRL	0.20		mg/L	270152	1	11/17/2018 00:26	JE
Isopropylbenzene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Methylene chloride	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Naphthalene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Styrene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Tetrachloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Tetrahydrofuran	BRL	0.010		mg/L	270152	1	11/17/2018 00:26	JE
Toluene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
trans-1,2-Dichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Trichloroethene	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Trichlorofluoromethane	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Vinyl chloride	BRL	0.0020		mg/L	270152	1	11/17/2018 00:26	JE
Xylenes, Total	BRL	0.0050		mg/L	270152	1	11/17/2018 00:26	JE
Surr: 4-Bromofluorobenzene	101	68-127		%REC	270152	1	11/17/2018 00:26	JE
Surr: Dibromofluoromethane	106	84.4-122		%REC	270152	1	11/17/2018 00:26	JE
Surr: Toluene-d8	98	80.1-116		%REC	270152	1	11/17/2018 00:26	JE

Total Metals by ICP/MS SW6020B

(SW3005A)

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

Client: Wood Environment & Infrastructure	Client Sample ID: MW-112
Project Name: BFEL-Atlanta	Collection Date: 11/8/2018 11:55:00 AM
Lab ID: 1811840-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.0117	0.00500		mg/L	270079	1	11/13/2018 00:10	KP
Copper	0.0462	0.00200		mg/L	270079	1	11/13/2018 00:10	KP
Lead	BRL	0.00100		mg/L	270079	1	11/13/2018 00:10	KP
Zinc	1.45	0.0100		mg/L	270079	1	11/13/2018 00:10	KP
ION SCAN SW9056A								
Nitrate	3.5	0.25		mg/L	R384687	1	11/08/2018 21:45	GO
Sulfate	190	10		mg/L	R384776	10	11/09/2018 14:00	GO
Dissolved Metals by ICP/MS SW6020B		(SW3005A)						
Arsenic	0.0111	0.00500		mg/L	270082	1	11/13/2018 14:00	JW
Copper	0.0515	0.00200		mg/L	270082	1	11/13/2018 14:00	JW
Lead	BRL	0.00100		mg/L	270082	1	11/13/2018 14:00	JW
Zinc	1.55	0.0100		mg/L	270082	1	11/13/2018 14:00	JW
CHLORINATED PESTICIDES, TCL SW8081B		(SW3510C)						
4,4'-DDD	BRL	0.00010		mg/L	270006	1	11/09/2018 19:47	UH
4,4'-DDE	BRL	0.00010		mg/L	270006	1	11/09/2018 19:47	UH
4,4'-DDT	BRL	0.00010		mg/L	270006	1	11/09/2018 19:47	UH
alpha-BHC	0.00035	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
alpha-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
beta-BHC	0.0017	0.00010		mg/L	270006	2	11/12/2018 13:46	UH
delta-BHC	0.00010	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
Dieldrin	BRL	0.00010		mg/L	270006	1	11/09/2018 19:47	UH
gamma-BHC	BRL	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
gamma-Chlordane	BRL	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
Heptachlor	BRL	0.000050		mg/L	270006	1	11/09/2018 19:47	UH
Methoxychlor	BRL	0.00050		mg/L	270006	1	11/09/2018 19:47	UH
Toxaphene	BRL	0.0030		mg/L	270006	1	11/09/2018 19:47	UH
Surr: Decachlorobiphenyl	81.7	20.6-134		%REC	270006	1	11/09/2018 19:47	UH
Surr: Tetrachloro-m-xylene	79.6	37-128		%REC	270006	1	11/09/2018 19:47	UH

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

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: TW-11				Lab ID: 1811840-002			
Collection Date: 11/8/2018 12:52:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.146		0.00186	0.00200	mg/L	270079	1
Zinc	0.551		0.00168	0.0100	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	5.2		0.055	0.25	mg/L	R384687	1
Sulfate	170		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.157		0.00186	0.00200	mg/L	270082	1
Zinc	0.598		0.00168	0.0100	mg/L	270082	1
Client Sample ID: MW-25				Lab ID: 1811840-003			
Collection Date: 11/8/2018 3:15:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.306		0.00186	0.00200	mg/L	270079	1
Lead	0.0321		0.000621	0.00100	mg/L	270079	1
Zinc	3.41		0.00168	0.0100	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	1.5		0.055	0.25	mg/L	R384687	1
Sulfate	260		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.326		0.00186	0.00200	mg/L	270082	1
Lead	0.0333		0.000621	0.00100	mg/L	270082	1
Zinc	3.73		0.00168	0.0100	mg/L	270082	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.000068		0.000010	0.000050	mg/L	270006	1
beta-BHC	0.0043		0.000019	0.00025	mg/L	270006	5
delta-BHC	0.000075		0.000009	0.000050	mg/L	270006	1
Client Sample ID: MW-104A				Lab ID: 1811840-004			
Collection Date: 11/8/2018 3:25:00 PM				Matrix: Groundwater			
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00245		0.00186	0.00200	mg/L	270079	1
ION SCAN SW9056A							
Sulfate	110		1.2	10	mg/L	R384776	10
Client Sample ID: MW-104D				Lab ID: 1811840-005			
Collection Date: 11/8/2018 3:45:00 PM				Matrix: Groundwater			
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
1,4-Dioxane	38		6.3	15	mg/L	270152	100
2-Butanone	140		2.5	50	mg/L	270152	1000
4-Methyl-2-pentanone	66		0.44	10	mg/L	270152	1000
Acetone	160		3.6	50	mg/L	270152	1000
Ethylbenzene	3.8		0.026	0.50	mg/L	270152	100
Tetrahydrofuran	49		6.5	5.0	mg/L	270152	5000
Toluene	40		0.39	5.0	mg/L	270152	1000
Xylenes, Total	18		0.077	0.50	mg/L	270152	100
Total Metals by ICP/MS SW6020B				(SW3005A)			

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-104D				Lab ID:	1811840-005		
Collection Date: 11/8/2018 3:45:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.00417		0.00186	0.00200	mg/L	270079	1
Zinc	0.0279		0.00168	0.0100	mg/L	270079	1
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Zinc	0.0245		0.00168	0.0100	mg/L	270082	1
Client Sample ID: DUP-1				Lab ID:	1811840-006		
Collection Date: 11/8/2018 12:00:00 PM				Matrix:	Groundwater		
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)			
1,4-Dioxane	54		6.3	15	mg/L	270152	100
2-Butanone	140		2.5	50	mg/L	270152	1000
4-Methyl-2-pentanone	68		0.44	10	mg/L	270152	1000
Acetone	150		3.6	50	mg/L	270152	1000
Ethylbenzene	3.8		0.026	0.50	mg/L	270152	100
Tetrahydrofuran	55		6.5	5.0	mg/L	270152	5000
Toluene	40		0.39	5.0	mg/L	270152	1000
Xylenes, Total	18		0.077	0.50	mg/L	270152	100
Client Sample ID: MW-108				Lab ID:	1811840-007		
Collection Date: 11/8/2018 12:45:00 PM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.186		0.00186	0.00200	mg/L	270079	1
Zinc	2.32		0.00168	0.0100	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	0.26		0.055	0.25	mg/L	R384687	1
Sulfate	220		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.199		0.00186	0.00200	mg/L	270082	1
Zinc	2.51		0.00168	0.0100	mg/L	270082	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
4,4'-DDD	0.00019		0.000014	0.00010	mg/L	270006	1
alpha-BHC	0.0030		0.000050	0.00025	mg/L	270006	5
beta-BHC	0.0012		0.000004	0.000050	mg/L	270006	1
delta-BHC	0.0014		0.000009	0.000050	mg/L	270006	1
gamma-BHC	0.00017		0.000005	0.000050	mg/L	270006	1
Client Sample ID: MW-112				Lab ID:	1811840-008		
Collection Date: 11/8/2018 11:55:00 AM				Matrix:	Groundwater		
Total Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0117		0.00205	0.00500	mg/L	270079	1
Copper	0.0462		0.00186	0.00200	mg/L	270079	1
Zinc	1.45		0.00168	0.0100	mg/L	270079	1
ION SCAN SW9056A							
Nitrate	3.5		0.055	0.25	mg/L	R384687	1
Sulfate	190		1.2	10	mg/L	R384776	10
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Arsenic	0.0111		0.00205	0.00500	mg/L	270082	1

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-112				Lab ID:	1811840-008		
Collection Date: 11/8/2018 11:55:00 AM				Matrix:	Groundwater		
Dissolved Metals by ICP/MS SW6020B				(SW3005A)			
Copper	0.0515		0.00186	0.00200	mg/L	270082	1
Zinc	1.55		0.00168	0.0100	mg/L	270082	1
CHLORINATED PESTICIDES, TCL SW8081B				(SW3510C)			
alpha-BHC	0.00035		0.000010	0.000050	mg/L	270006	1
beta-BHC	0.0017		0.000008	0.00010	mg/L	270006	2
delta-BHC	0.00010		0.000009	0.000050	mg/L	270006	1

Qualifiers:

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

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: _____

AES Work Order Number: _____

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature _____ °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). _____

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). _____

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). _____

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Lab Order: 1811840

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811840-001A	TB-02	11/8/2018 9:00:00AM	Aqueous	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/16/2018
1811840-002A	TW-11	11/8/2018 12:52:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-002B	TW-11	11/8/2018 12:52:00PM	Groundwater	ION SCAN			11/08/2018
1811840-002B	TW-11	11/8/2018 12:52:00PM	Groundwater	ION SCAN			11/09/2018
1811840-002C	TW-11	11/8/2018 12:52:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811840-002D	TW-11	11/8/2018 12:52:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-003A	MW-25	11/8/2018 3:15:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/16/2018
1811840-003B	MW-25	11/8/2018 3:15:00PM	Groundwater	ION SCAN			11/08/2018
1811840-003B	MW-25	11/8/2018 3:15:00PM	Groundwater	ION SCAN			11/09/2018
1811840-003C	MW-25	11/8/2018 3:15:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811840-003D	MW-25	11/8/2018 3:15:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-003E	MW-25	11/8/2018 3:15:00PM	Groundwater	Pesticides and PCBs		11/9/2018 9:00:00AM	11/09/2018
1811840-003E	MW-25	11/8/2018 3:15:00PM	Groundwater	Pesticides and PCBs		11/9/2018 9:00:00AM	11/12/2018
1811840-003E	MW-25	11/8/2018 3:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-003E	MW-25	11/8/2018 3:15:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/12/2018
1811840-004A	MW-104A	11/8/2018 3:25:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/16/2018
1811840-004B	MW-104A	11/8/2018 3:25:00PM	Groundwater	ION SCAN			11/08/2018
1811840-004B	MW-104A	11/8/2018 3:25:00PM	Groundwater	ION SCAN			11/09/2018
1811840-004C	MW-104A	11/8/2018 3:25:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811840-004D	MW-104A	11/8/2018 3:25:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-004E	MW-104A	11/8/2018 3:25:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-005A	MW-104D	11/8/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/16/2018
1811840-005A	MW-104D	11/8/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/17/2018
1811840-005A	MW-104D	11/8/2018 3:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/19/2018
1811840-005B	MW-104D	11/8/2018 3:45:00PM	Groundwater	ION SCAN			11/08/2018
1811840-005C	MW-104D	11/8/2018 3:45:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/12/2018
1811840-005D	MW-104D	11/8/2018 3:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-005E	MW-104D	11/8/2018 3:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-006A	DUP-1	11/8/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/16/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Lab Order: 1811840

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1811840-006A	DUP-1	11/8/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/17/2018
1811840-006A	DUP-1	11/8/2018 12:00:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/19/2018
1811840-007A	MW-108	11/8/2018 12:45:00PM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/17/2018
1811840-007B	MW-108	11/8/2018 12:45:00PM	Groundwater	ION SCAN			11/08/2018
1811840-007B	MW-108	11/8/2018 12:45:00PM	Groundwater	ION SCAN			11/09/2018
1811840-007C	MW-108	11/8/2018 12:45:00PM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/13/2018
1811840-007D	MW-108	11/8/2018 12:45:00PM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-007E	MW-108	11/8/2018 12:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-007E	MW-108	11/8/2018 12:45:00PM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/12/2018
1811840-008A	MW-112	11/8/2018 11:55:00AM	Groundwater	Volatile Organic Compounds by GC/MS		11/12/2018 2:17:00PM	11/17/2018
1811840-008B	MW-112	11/8/2018 11:55:00AM	Groundwater	ION SCAN			11/08/2018
1811840-008B	MW-112	11/8/2018 11:55:00AM	Groundwater	ION SCAN			11/09/2018
1811840-008C	MW-112	11/8/2018 11:55:00AM	Groundwater	Total Metals by ICP/MS		11/12/2018 2:19:00PM	11/13/2018
1811840-008D	MW-112	11/8/2018 11:55:00AM	Groundwater	Dissolved Metals by ICP/MS		11/12/2018 4:21:00PM	11/13/2018
1811840-008E	MW-112	11/8/2018 11:55:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/09/2018
1811840-008E	MW-112	11/8/2018 11:55:00AM	Groundwater	TCL-CHLORINATED PESTICIDES		11/9/2018 9:00:00AM	11/12/2018

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270006

Sample ID: MB-270006	Client ID:	Units: mg/L	Prep Date: 11/09/2018	Run No: 384404							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/09/2018	Seq No: 8582375							
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	0.000363	0	0.0005		72.6	20.6	134				
Surr: Tetrachloro-m-xylene	0.000361	0	0.0005		72.1	37	128				

Sample ID: MB-270006	Client ID:	Units: mg/L	Prep Date: 11/09/2018	Run No: 384482							
Sample Type: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/12/2018	Seq No: 8583968							
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									

Qualifiers:

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270006

Sample ID: MB-270006	Client ID:	Units: mg/L	Prep Date: 11/09/2018	Run No: 384482							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/12/2018	Seq No: 8583968							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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	0.000393	0	0.0005		78.5	20.6	134				
Surr: Tetrachloro-m-xylene	0.000379	0	0.0005		75.8	37	128				

Sample ID: MB-270006	Client ID:	Units: mg/L	Prep Date: 11/09/2018	Run No: 384482							
SampleType: MBLK	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/12/2018	Seq No: 8583982							
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	0.000359	0	0.0005		71.8	20.6	134				
Surr: Tetrachloro-m-xylene	0.000354	0	0.0005		70.7	37	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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270006

Sample ID: LCS-270006	Client ID:	Units: mg/L	Prep Date: 11/09/2018	Run No: 384404							
SampleType: LCS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/09/2018	Seq No: 8582376							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001058	0.00010	0.0010		106	61	127				
Dieldrin	0.000949	0.00010	0.0010		94.9	66.8	130				
gamma-BHC	0.000975	0.000050	0.0010		97.5	70.2	129				
Heptachlor	0.000942	0.000050	0.0010		94.2	65.1	131				
Surr: Decachlorobiphenyl	0.000344	0	0.0005		68.8	20.6	134				
Surr: Tetrachloro-m-xylene	0.000333	0	0.0005		66.6	37	128				

Sample ID: 1811840-003EMS	Client ID: MW-25	Units: mg/L	Prep Date: 11/09/2018	Run No: 384404							
SampleType: MS	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/09/2018	Seq No: 8582379							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001073	0.00010	0.0010		107	42.4	138				
Dieldrin	0.000953	0.00010	0.0010	0.00003355	91.9	44.9	138				
gamma-BHC	0.000923	0.000050	0.0010	0.00001815	90.5	56.5	137				
Heptachlor	0.000867	0.000050	0.0010		86.7	43.6	134				
Surr: Decachlorobiphenyl	0.000388	0	0.0005		77.6	20.6	134				
Surr: Tetrachloro-m-xylene	0.000328	0	0.0005		65.5	37	128				

Sample ID: 1811840-003EMSD	Client ID: MW-25	Units: mg/L	Prep Date: 11/09/2018	Run No: 384404							
SampleType: MSD	TestCode: CHLORINATED PESTICIDES, TCL SW8081B	BatchID: 270006	Analysis Date: 11/09/2018	Seq No: 8582380							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

4,4'-DDT	0.001003	0.00010	0.0010		100	42.4	138	0.001073	6.73	20	
Dieldrin	0.000919	0.00010	0.0010	0.00003355	88.5	44.9	138	0.0009527	3.60	20	
gamma-BHC	0.000955	0.000050	0.0010	0.00001815	93.7	56.5	137	0.0009232	3.39	20	
Heptachlor	0.000901	0.000050	0.0010		90.1	43.6	134	0.0008674	3.81	21.3	
Surr: Decachlorobiphenyl	0.000372	0	0.0005		74.3	20.6	134	0.0003881	0	0	
Surr: Tetrachloro-m-xylene	0.000330	0	0.0005		66.0	37	128	0.0003275	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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270079

Sample ID: MB-270079	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MBLK	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586216							
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-270079	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: LCS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586217							
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	0.1000		102	80	120				
Copper	0.1051	0.00200	0.1000		105	80	120				
Lead	0.1042	0.00100	0.1000		104	80	120				
Zinc	0.1007	0.0100	0.1000		101	80	120				

Sample ID: 1811796-002CMS	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MS	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586223							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1012	0.00500	0.1000		101	75	125				
Copper	0.1024	0.00200	0.1000	0.01012	92.3	75	125				
Lead	0.09324	0.00100	0.1000		93.2	75	125				
Zinc	0.3144	0.0100	0.1000	0.2285	86.0	75	125				

Sample ID: 1811796-002CMSD	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1010	0.00500	0.1000		101	75	125	0.1012	0.225	20	
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Qualifiers:

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

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270079

Sample ID: 1811796-002CMSD	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384530							
SampleType: MSD	TestCode: Total Metals by ICP/MS SW6020B	BatchID: 270079	Analysis Date: 11/12/2018	Seq No: 8586225							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1001	0.00200	0.1000	0.01012	90.0	75	125	0.1024	2.30	20	
Lead	0.09223	0.00100	0.1000		92.2	75	125	0.09324	1.09	20	
Zinc	0.3096	0.0100	0.1000	0.2285	81.2	75	125	0.3144	1.54	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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270082

Sample ID: MB-270082	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MBLK	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587311							
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-270082	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: LCS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587324							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1030	0.00500	0.1000		103	80	120				
Copper	0.1065	0.00200	0.1000		107	80	120				
Lead	0.1049	0.00100	0.1000		105	80	120				
Zinc	0.1047	0.0100	0.1000		105	80	120				

Sample ID: 1811671-005EMS	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MS	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587325							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1019	0.00500	0.1000		102	75	125				
Copper	0.1027	0.00200	0.1000	0.004167	98.5	75	125				
Lead	0.09716	0.00100	0.1000		97.2	75	125				
Zinc	0.1121	0.0100	0.1000	0.01684	95.2	75	125				

Sample ID: 1811671-005EMSD	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587328							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	0.1003	0.00500	0.1000		100	75	125	0.1019	1.61	20	
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Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270082

Sample ID: 1811671-005EMSD	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384592							
SampleType: MSD	TestCode: Dissolved Metals by ICP/MS SW6020B	BatchID: 270082	Analysis Date: 11/13/2018	Seq No: 8587328							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Copper	0.1020	0.00200	0.1000	0.004167	97.8	75	125	0.1027	0.716	20	
Lead	0.09658	0.00100	0.1000		96.6	75	125	0.09716	0.600	20	
Zinc	0.1128	0.0100	0.1000	0.01684	95.9	75	125	0.1121	0.620	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270152

Sample ID: MB-270152	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384497							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/12/2018	Seq No: 8584235							
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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270152

Sample ID: MB-270152	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384497							
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/12/2018	Seq No: 8584235							
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	0.04991	0	0.0500		99.8	68	127				
Surr: Dibromofluoromethane	0.05094	0	0.0500		102	84.4	122				
Surr: Toluene-d8	0.04636	0	0.0500		92.7	80.1	116				

Sample ID: LCS-270152	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384497							
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/12/2018	Seq No: 8585264							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.01756	0.0050	0.0200		87.8	69	136				
Benzene	0.01847	0.0050	0.0200		92.4	73.7	126				
Chlorobenzene	0.01958	0.0050	0.0200		97.9	73.5	124				
Toluene	0.01842	0.0050	0.0200	0.0005400	89.4	76.8	125				
Trichloroethene	0.01844	0.0050	0.0200		92.2	70.9	124				
Surr: 4-Bromofluorobenzene	0.04922	0	0.0500		98.4	68	127				
Surr: Dibromofluoromethane	0.04936	0	0.0500		98.7	84.4	122				
Surr: Toluene-d8	0.04655	0	0.0500		93.1	80.1	116				

Sample ID: 1811428-002AMS	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384594							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/14/2018	Seq No: 8588410							
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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270152

Sample ID: 1811428-002AMS	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384594							
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/14/2018	Seq No: 8588410							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2.152	0.50	2.000		108	65.7	143				
Chlorobenzene	2.331	0.50	2.000		117	70.9	132				
Toluene	2.261	0.50	2.000		113	63.8	141				
Trichloroethene	2.202	0.50	2.000		110	70.6	128				
Surr: 4-Bromofluorobenzene	4.780	0	5.000		95.6	68	127				
Surr: Dibromofluoromethane	4.866	0	5.000		97.3	84.4	122				
Surr: Toluene-d8	4.919	0	5.000		98.4	80.1	116				

Sample ID: 1811672-006ADUP	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384594							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/14/2018	Seq No: 8588409							
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						0	0	30	
1,1,2,2-Tetrachloroethane	BRL	0.0050						0	0	30	
1,1,2-Trichloroethane	BRL	0.0050						0	0	30	
1,1-Dichloroethane	BRL	0.0050						0	0	30	
1,1-Dichloroethene	BRL	0.0050						0	0	30	
1,1-Dichloropropene	BRL	0.0050						0	0	30	
1,2,4-Trichlorobenzene	BRL	0.0050						0	0	30	
1,2-Dichloroethane	BRL	0.0050						0	0	30	
1,2-Dichloropropane	BRL	0.0050						0	0	30	
1,4-Dioxane	BRL	0.15						0	0	30	
2-Butanone	BRL	0.050						0	0	30	
4-Methyl-2-pentanone	BRL	0.010						0	0	30	
Acetone	BRL	0.050						0	0	30	
Benzene	BRL	0.0050						0	0	30	
Carbon disulfide	BRL	0.0050						0	0	30	
Carbon tetrachloride	BRL	0.0050						0	0	30	

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

Client: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: 270152

Sample ID: 1811672-006ADUP	Client ID:	Units: mg/L	Prep Date: 11/12/2018	Run No: 384594							
SampleType: DUP	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 270152	Analysis Date: 11/14/2018	Seq No: 8588409							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	BRL	0.0050						0	0	30	
Chloroethane	BRL	0.010						0	0	30	
Chloroform	BRL	0.0050						0	0	30	
Chloromethane	BRL	0.010						0	0	30	
cis-1,2-Dichloroethene	BRL	0.0050						0	0	30	
Cyclohexane	BRL	0.0050						0	0	30	
Ethylbenzene	BRL	0.0050						0	0	30	
Isopropylbenzene	BRL	0.0050						0	0	30	
Methylene chloride	BRL	0.0050						0	0	30	
Naphthalene	BRL	0.0050						0	0	30	
Styrene	BRL	0.0050						0	0	30	
Tetrachloroethene	BRL	0.0050						0.004790	0	30	
Toluene	BRL	0.0050						0.0005200	0	30	
trans-1,2-Dichloroethene	BRL	0.0050						0	0	30	
Trichloroethene	BRL	0.0050						0	0	30	
Trichlorofluoromethane	BRL	0.0050						0	0	30	
Vinyl chloride	BRL	0.0020						0	0	30	
Xylenes, Total	BRL	0.0050						0	0	30	
Surr: 4-Bromofluorobenzene	0.04746	0	0.0500		94.9	68	127	0.04820	0	0	
Surr: Dibromofluoromethane	0.05146	0	0.0500		103	84.4	122	0.05076	0	0	
Surr: Toluene-d8	0.04915	0	0.0500		98.3	80.1	116	0.05100	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: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: R384687

Sample ID: MB-R384687	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589587							
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-R384687	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589588							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.222 0.25 5.000 104 90 110
 Sulfate 24.72 1.0 25.00 98.9 90 110

Sample ID: 1811752-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589611							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.392 0.25 5.000 1.347 121 90 110 S
 Sulfate 26.17 1.0 25.00 1.465 98.8 90 110

Sample ID: 1811752-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.850 0.25 5.000 1.343 130 90 110 S
 Sulfate 26.21 1.0 25.00 1.596 98.5 90 110

Sample ID: 1811752-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 7.418 0.25 5.000 1.347 121 90 110 7.392 0.348 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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: R384687

Sample ID: 1811752-001AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384687							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384687	Analysis Date: 11/08/2018	Seq No: 8589612							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Sulfate	26.18	1.0	25.00	1.465	98.8	90	110	26.17	0.038	20
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Qualifiers:

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

Client: Wood Environment & Infrastructure
Project Name: BFEL-Atlanta
Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: R384776

Sample ID: MB-R384776	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MBLK	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591494							
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-R384776	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: LCS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591493							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 5.099 0.25 5.000 102 90 110
 Sulfate 24.69 1.0 25.00 98.8 90 110

Sample ID: 1811900-002AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591525							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 256.5 12 250.0 103 90 110
 Sulfate 1228 50 1250 91.64 90.9 90 110

Sample ID: 1811902-001AMS	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591529							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 261.4 12 250.0 105 90 110
 Sulfate 1241 50 1250 19.60 97.7 90 110

Sample ID: 1811900-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384776							
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591527							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate 257.6 12 250.0 103 90 110 256.5 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: Wood Environment & Infrastructure
 Project Name: BFEL-Atlanta
 Workorder: 1811840

ANALYTICAL QC SUMMARY REPORT

BatchID: R384776

Sample ID: 1811900-002AMSD	Client ID:	Units: mg/L	Prep Date:	Run No: 384776
SampleType: MSD	TestCode: ION SCAN SW9056A	BatchID: R384776	Analysis Date: 11/09/2018	Seq No: 8591527

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	1224	50	1250	91.64	90.6	90	110	1228	0.316	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	

Voluntary Remediation Program Status Report No. 14
Former Estech General Chemicals Site
HSI Site No. 10196, Parcels 17-0191-LL0244 and 17-0191-LL0400
Wood Project 6122-08-0154

February 8, 2019

FIELD SAMPLING FORMS

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-1B DEPTH TO PRODUCT:

DATE: 11/7/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1130

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF:

DEPTH TO WATER: 25.20
(ft btoc)

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
28

TOTAL DEPTH: 32.48
(ft btoc)

PURGE VOLUME: 3.6
(gals)

WELL DIAMETER (inches): (circle one)

2-inch or 1-inch

Arrived at:

Initial PID =

Purging 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: 1240	21	6.30	17.72	0.371	330	3.47	218	300 ()	25.80
1250	2	6.31	17.83	0.371	110	2.98	212	300	25.78
1300	>2	6.37	17.86	0.370	30.3	2.99	214	300	25.75
1310	3	6.32	17.78	0.369	6.8	2.88	218	300	25.75
1320	>3.5	6.33	17.83	0.368	2.6	2.76	219	300	25.75
1325	<u>sample</u>								

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 70°</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES - Atlanta, GA</u>
SAMPLER:	<u>B. Updyke</u> OBSERVER: <u> </u>

[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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-22 DEPTH TO PRODUCT: _____ DATE: 11/2/18

PURGE METHOD: Low Flow/Low Stress TIME: _____
PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 19.18 DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 24
(ft btoc) TOTAL DEPTH: 29.16 >>>>>>>>

Arrived at: _____ PURGE VOLUME: 8.0 WELL DIAMETER (inches): (circle one)
Initial PID = _____ (gals) 2-inch or 1-inch

Purging 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: <u>1335</u>	<u>2.1</u>	<u>3.84</u>	<u>10.72</u>	<u>0.553</u>	<u>537</u>	<u>9.75</u>	<u>337</u>	<u>300</u>	<u>19.60</u>
<u>1345</u>	<u>1.5</u>	<u>4.03</u>	<u>14.10</u>	<u>0.569</u>	<u>172</u>	<u>0.15</u>	<u>310</u>	<u>300</u>	<u>19.75</u>
<u>1355</u>	<u>0.5</u>	<u>4.01</u>	<u>14.09</u>	<u>0.583</u>	<u>8137</u>	<u>0.42</u>	<u>293</u>	<u>300</u>	<u>19.90</u>
<u>1405</u>	<u>3.5</u>	<u>4.20</u>	<u>14.60</u>	<u>0.580</u>	<u>891</u>	<u>0.21</u>	<u>250</u>	<u>300</u>	<u>19.85</u>
<u>1415</u>	<u>4.5</u>	<u>4.00</u>	<u>14.69</u>	<u>0.579</u>	<u>55.2</u>	<u>0.07</u>	<u>272</u>	<u>300</u>	<u>19.85</u>
<u>1425</u>	<u>5.5</u>	<u>3.99</u>	<u>15.42</u>	<u>0.576</u>	<u>26.3</u>	<u>0.35</u>	<u>264</u>	<u>300</u>	<u>19.83</u>
<u>1435</u>	<u>6.5</u>	<u>3.99</u>	<u>15.17</u>	<u>0.577</u>	<u>24.1</u>	<u>0.28</u>	<u>260</u>	<u>300</u>	<u>19.87</u>
<u>1445</u>	<u>7.5</u>	<u>4.00</u>	<u>15.12</u>	<u>0.577</u>	<u>14.1</u>	<u>0.23</u>	<u>258</u>	<u>300</u>	<u>19.87</u>
<u>1455</u>	<u>8.5</u>	<u>4.01</u>	<u>15.24</u>	<u>0.578</u>	<u>11.0</u>	<u>0.18</u>	<u>255</u>	<u>300</u>	<u>19.80</u>
<u>1505</u>	<u>9.5</u>	<u>4.01</u>	<u>15.08</u>	<u>0.576</u>	<u>7.3</u>	<u>0.14</u>	<u>253</u>	<u>300</u>	<u>19.80</u>
<u>1510</u>	<u>sample</u>								

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>rain 45°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, 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: 11/8/18

TIME: 08:20 1515

PURGE METHOD: Low Flow/Low Stress :

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS

BLADDER

PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 28.54

(ft btoc)

TOTAL DEPTH: 29.80 x 0.163 = 29.5 >>>>>>>>

(ft btoc)

PURGE VOLUME: 1.26 x 0.163 = 0.21 x 3

(gals) = 0.63

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
29.5

Arrived at: 1405

Initial PID = _____

Purging PID = _____

WELL DIAMETER (Inches): (circle one)

2-inch or

1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: <u>1435</u>	<u>0</u>	<u>4.45</u>	<u>18.06</u>	<u>0.557</u>	<u>8.8</u>	<u>4.11</u>	<u>327</u>	<u>100 ()</u>	<u>29.23</u>
<u>1440</u>	<u>0.125</u>	<u>4.42</u>	<u>18.13</u>	<u>0.556</u>	<u>8.7</u>	<u>3.29</u>	<u>341</u>	<u>100</u>	<u>29.35</u>
<u>1445</u>	<u>0.25</u>	<u>4.42</u>	<u>18.07</u>	<u>0.475</u>	<u>2.9</u>	<u>4.11</u>	<u>359</u>	<u>100</u>	<u>29.32</u>
<u>1450</u>	<u>0.375</u>	<u>4.41</u>	<u>18.08</u>	<u>0.504</u>	<u>2.4</u>	<u>3.88</u>	<u>355</u>	<u>100</u>	<u>29.51</u>
<u>1455</u>	<u>0.5</u>	<u>4.41</u>	<u>16.96</u>	<u>0.567</u>	<u>2.9</u>	<u>3.89</u>	<u>345</u>	<u>100</u>	<u>29.55</u>
<u>1500</u>	<u>0.63</u>	<u>4.41</u>	<u>17.11</u>	<u>0.564</u>	<u>2.6</u>	<u>4.25</u>	<u>346</u>	<u>100</u>	<u>"</u>
<u>1515</u>	<u>sample Time</u>								
COMMENTS: <u>Will let well recharge for 15 min before sampling</u>									

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Overcast, Temp 65°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-26

DEPTH TO PRODUCT: _____

DATE: 11/9/18

PURGE METHOD: Low Flow/Low Stress :

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS

BLADDER

PERISTALTIC

TIME: 1227

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 11.02

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

(ft btoc)

TOTAL DEPTH: 21.27 >>>>>>>

18.5

Arrived at: 1045

Initial PID = _____

PURGE VOLUME: 10.25 x 0.163 = 1.7 X 3

WELL DIAMETER (inches): (circle one)

(gals)

5.1 gal

2-inch or

1-inch

Purging 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: <u>1135</u>	<u>0</u>	<u>4.68</u>	<u>16.74</u>	<u>0.741</u>	<u>3.9</u>	<u>2.07</u>	<u>298</u>	<u>400 (f)</u>	<u>11.26</u>
<u>1145</u>	<u>1.0</u>	<u>4.73</u>	<u>17.12</u>	<u>0.695</u>	<u>3.3</u>	<u>1.57</u>	<u>303</u>	<u>400</u>	<u>11.28</u>
<u>1155</u>	<u>2.0</u>	<u>4.74</u>	<u>17.11</u>	<u>0.599</u>	<u>2.1</u>	<u>1.31</u>	<u>309</u>	<u>400</u>	<u>11.29</u>
<u>1205</u>	<u>3.0</u>	<u>4.80</u>	<u>17.10</u>	<u>0.583</u>	<u>1.8</u>	<u>1.25</u>	<u>309</u>	<u>400</u>	<u>11.29</u>
<u>1210</u>	<u>3.5</u>	<u>4.81</u>	<u>17.09</u>	<u>0.578</u>	<u>1.6</u>	<u>1.20</u>	<u>309</u>	<u>400</u>	<u>11.30</u>
<u>1215</u>	<u>4.0</u>	<u>4.82</u>	<u>17.07</u>	<u>0.568</u>	<u>1.3</u>	<u>1.18</u>	<u>309</u>	<u>400</u>	<u>11.30</u>
<u>1220</u>	<u>4.5</u>	<u>4.82</u>	<u>17.06</u>	<u>0.562</u>	<u>1.4</u>	<u>1.12</u>	<u>309</u>	<u>400</u>	<u>11.30</u>
<u>1225</u>	<u>5.1</u>	<u>4.83</u>	<u>17.08</u>	<u>0.560</u>	<u>1.3</u>	<u>1.11</u>	<u>308</u>	<u>400</u>	<u>11.30</u>

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Raining, Overcast, Temp 60°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES - Atlanta, GA</u>
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MK-101 DEPTH TO PRODUCT: _____

DATE: 11/7/18

PURGE METHOD: Low Flow/Low Stress

TIME: 1400

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 16.20

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
22'

(ft btoc) TOTAL DEPTH: 27.87

(ft btoc)

PURGE VOLUME: 5.7

(gals)

WELL DIAMETER (Inches): (circle one)

2-inch or 1-inch

Arrived at: _____

Initial PID = _____

Purging 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: 1430	2	4.82	17.96	0.410	555	1.35	288	300	18.20
1440	2	4.62	18.67	0.397	330	0.84	332	200	18.20
1450	3	4.63	18.82	0.396	8.5	0.65	341	200	17.95
1500	4	4.65	18.85	0.396	5.2	0.55	348	200	17.95
1510	5	4.63	19.16	0.392	3.8	0.44	341	100	17.80
1520	6	4.62	19.19	0.394	1.0	0.38	350	100	17.45
1525	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	2	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION

WEATHER:	<u>RAIN 90°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>B. Updya</u>
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: 8122-08-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-102 DEPTH TO PRODUCT:

DATE: 11-7-18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1225

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DEPTH TO WATER: 23.99

(ft btoc) >>>>>>>>

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
30.0'

TOTAL DEPTH: 33.20

(ft btoc) $9.21 \times 1.17 = 1.50 \times 3 = 4.69$

Arrived at:

PURGE VOLUME: 4.69

WELL DIAMETER (inches): (circle one)

Initial PID =

(gals)

2-inch or 1-inch

Purging 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	0.125	4.94	20.17	1.08	93.3	5.79	320	400 ()	29.12
1140	1.25	4.76	20.22	1.09	64.2	4.81	329	↓	29.12
1150	2.25	4.71	19.96	1.16	21.6	1.99	354		29.12
1200	3.25	4.76	19.66	1.14	11.0	1.51	355		29.12
1205	3.75	4.93	19.65	1.01	8.61	1.42	340		29.12
1210	4.25	5.02	19.70	1.01	4.36	1.59	334		29.12
1215	4.75	5.02	19.98	1.01	2.08	1.59	335		29.12
1220	5.25	5.02	20.28	1.01	1.13	1.58	333		29.12
1225	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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>COLD-CLEAR-DRY</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>EVER GUILLEN</u> OBSERVER: <u> </u>

[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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-104A DEPTH TO PRODUCT:

DATE: 11-8-18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1525

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDEOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF:

DEPTH TO WATER: 13.66

(ft btoc)

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

TOTAL DEPTH: 39.60 >>>>>>>

35.0'

(ft btoc) $25.94 \times 1.17 = 4.40 \times 3 = 13.22$

PURGE VOLUME: 13.22

WELL DIAMETER (inches): (circle one)

Arrived at:

(gals)

Initial PID =

2-Inch or 1-inch

Purging 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: <u>1303</u>	<u>0.25</u>	<u>6.70</u>	<u>18.79</u>	<u>0.936</u>	<u>702</u>	<u>1.02</u>	<u>-50</u>	()	
<u>1313</u>	<u>1.25</u>	<u>6.58</u>	<u>18.89</u>	<u>0.912</u>	<u>361</u>	<u>0.14</u>	<u>-48</u>		
<u>1323</u>	<u>2.25</u>	<u>6.52</u>	<u>19.10</u>	<u>0.896</u>	<u>148</u>	<u>0.10</u>	<u>-48</u>		
<u>1353</u>	<u>4.25</u>	<u>6.51</u>	<u>19.19</u>	<u>0.885</u>	<u>85.9</u>	<u>0.10</u>	<u>-48</u>		
<u>1413</u>	<u>6.25</u>	<u>6.50</u>	<u>19.26</u>	<u>0.885</u>	<u>47.4</u>	<u>0.10</u>	<u>-51</u>		
<u>1433</u>	<u>8.25</u>	<u>6.52</u>	<u>19.34</u>	<u>0.877</u>	<u>25.3</u>	<u>0.10</u>	<u>-50</u>		
<u>1453</u>	<u>10.25</u>	<u>6.50</u>	<u>19.35</u>	<u>0.877</u>	<u>4.5</u>	<u>0.10</u>	<u>-52</u>		
<u>1513</u>	<u>12.25</u>	<u>6.50</u>	<u>19.36</u>	<u>0.875</u>	<u>6.9</u>	<u>0.10</u>	<u>-53</u>		
<u>1523</u>	<u>13.25</u>	<u>6.5</u>	<u>19.31</u>	<u>0.873</u>	<u>2.8</u>	<u>0.10</u>	<u>-54</u>		
<u>1525</u>	<u>collected</u>	<u>at</u>	<u>sample</u>						

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION

WEATHER: <u>Cold - Cloudy - some Rain</u>
SHIPPED VIA: FedEX or lab courier
SHIPPED TO: AES - Atlanta, GA
SAMPLER: <u>EVER GUILLEN</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: ~~AW-1010~~ MW-104D DEPTH TO PRODUCT: _____ DATE: 11-8-18

PURGE METHOD: Low Flow/Low Stress

TIME: 1545

PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DUP-1 DEPTH TO WATER: 17.46

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
80.0'

(ft btoc)
TOTAL DEPTH: 82.75 >>>>>>>
(ft btoc) $68.29 \times 1.17 = 16.09 \times 3 = 33.29$

Arrived at: _____
Initial PID = _____
Purging PID = _____

PURGE VOLUME: 33.29
(gals)

WELL DIAMETER (Inches): (circle one)
2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1023	1.0	6.17	18.31	2.91	12.8	1.13	0.0	500 ()	25.92
1039	3.0	6.18	18.42	2.83	0.0	0.0	-7.0		32.00
1055	5.0	6.21	18.99	2.74	0.0	0.0	-13.0		36.92
1111	7.0	6.22	19.17	2.74	4.6	0.0	-14.0		44.61
1127	9.0	6.33	19.29	2.90	0.0	0.0	-8.0		52.48
1143	11.0	6.31	21.45	2.94	2.2	0.0	-2.0		60.87
1159	13.0	6.33	20.44	2.85	12.7	0.0	-6.0		69.72
1215	15.0	6.38	21.46	2.91	6.2	0.0	-4.0		70.31
<i>Well Dry - Will allow well to recover before collecting SAMPLE</i>									
1540	<i>Well recovered to 59.63'</i>								59.63
1545	<i>Collect Sample</i>								

COMMENTS: SOLVENT ODOR -
ALSO Collected DUP-1 @ 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	12	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>COLD - CLOUDY - HUMID - Some RAIN</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>EVER GILLEN</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-105 DEPTH TO PRODUCT: _____

DATE: 11/13/18

PURGE METHOD: Low Flow/Low Stress

TIME: _____

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 14.08

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
21

(ft btoc)

TOTAL DEPTH: 27.39

(ft btoc)

PURGE VOLUME: 6.5

(gals)

Arrived at: _____

Initial PID = _____

Purging PID = _____

WELL DIAMETER (Inches): (circle one)

2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: <u>1345</u>	<u>0.1</u>	<u>5.92</u>	<u>15.93</u>	<u>0.474</u>	<u>183</u>	<u>1.23</u>	<u>210</u>	<u>300</u>	<u>15.850</u>
<u>1355</u>	<u>0.1</u>	<u>5.97</u>	<u>14.63</u>	<u>0.469</u>	<u>179</u>	<u>0.79</u>	<u>183</u>	<u>300</u>	<u>15.70</u>
<u>1405</u>	<u>1.0</u>	<u>5.99</u>	<u>18.34</u>	<u>0.472</u>	<u>225</u>	<u>0.60</u>	<u>152</u>	<u>200</u>	<u>15.90</u>
<u>1415</u>	<u>0.5</u>	<u>5.91</u>	<u>18.01</u>	<u>0.466</u>	<u>193</u>	<u>1.21</u>	<u>139</u>	<u>200</u>	<u>17.20</u>
<u>1425</u>	<u>2.5</u>	<u>5.92</u>	<u>17.42</u>	<u>0.467</u>	<u>76.2</u>	<u>0.53</u>	<u>141</u>	<u>200</u>	
<u>1435</u>									
<u>1445</u>	<u>2.2</u>	<u>5.89</u>	<u>17.84</u>	<u>0.498</u>	<u>103</u>	<u>6.95</u>	<u>123</u>	<u>400</u>	
<u>1455</u>	<u>2.3</u>	<u>5.91</u>	<u>18.30</u>	<u>0.490</u>	<u>120</u>	<u>0.52</u>	<u>114</u>	<u>500</u>	<u>22.05</u>
<u>1505</u>		<u>6.03</u>	<u>13.80</u>	<u>0.487</u>	<u>629</u>	<u>11.03</u>	<u>121</u>		
	<u>purged dry</u>								
COMMENTS: <u>ISSUES with pump flow stopping</u>									

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>B. clouds, rain 50°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta GA
SAMPLER:	<u>B. Updyk</u> 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]

11/14/18 sample 0945

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3488

page 1 of 2

WELL ID: 106-D DEPTH TO PRODUCT:

DATE: 11/14/14
TIME: 10:15

PURGE METHOD: Low Flow/Low Stress
PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOSS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DEPTH TO WATER: 34.90
(ft btoc)
TOTAL DEPTH: 73.02
(ft btoc)
PURGE VOLUME: 18.7
(gals)

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
68

Arrived at:
Initial PID =
Purging PID =

WELL DIAMETER (inches): (circle one)
2 1/2 inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1120	2.1	6.95	14.73	0.838	10.8	2.01	260	500	47.24
1130	2.1	6.30	17.54	0.817	0.7	2.32	260	500	42.80
1140	2.0	6.29	16.53	0.810	0.0	2.55	276	400	44.70
1150	2.5	6.19	17.55	0.813	0.0	1.57	228	400	44.68
1200	3.5	6.14	18.47	0.795	0.0	0.61	212	400	44.75
1210	4.5	6.12	18.73	0.772	0.0	0.49	205	400	44.94
1220	5.5	6.14	18.95	0.763	0.0	0.24	200	400	45.25
1230	6.5	6.14	19.03	0.756	0.0	0.19	196	400	45.34
1240	7.5	6.14	19.20	0.752	0.0	0.19	193	400	45.90
1250	8.5	6.13	19.09	0.749	0.0	0.01	192	400	46.08
1300	9.5	6.15	19.21	0.751	0.0	0.00	190	400	46.08
1310	11.0	6.15	19.27	0.756	0.0	0.00	189	500	46.11
1320	12.5	6.15	19.36	0.763	0.0	0.00	188	500	46.35
1330	14.0	6.14	19.20	0.769	0.0	0.00	189	500	46.30
1340	15.5	6.15	19.19	0.777	0.0	0.00	188	500	46.30
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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy rain 50°</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

page 2 of 2

WELL ID: MW-106D DEPTH TO PRODUCT: _____

DATE: 11/14/18

PURGE METHOD: Low Flow/Low Stress
 PURGE EQUIPMENT (CIRCLE ONE)
 GRUNDFOS BLADDER PERISTALTIC

TIME: _____

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
 >>>>>>>

(ft btoc)

TOTAL DEPTH: _____

(ft btoc)

PURGE VOLUME: 18.7

(gals)

Arrived at: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

2-inch or 1-inch

Purging 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:								<u>60</u>	<u>47.05</u>
<u>1350</u>	<u>17.0</u>	<u>6.17</u>	<u>19.31</u>	<u>0.789</u>	<u>0.0</u>	<u>0.00</u>	<u>186</u>	<u>600</u>	<u>47.05</u>
<u>1400</u>	<u>19.0</u>	<u>6.15</u>	<u>19.26</u>	<u>0.790</u>	<u>0.0</u>	<u>0.00</u>	<u>188</u>	<u>600</u>	<u>47.15</u>
<u>1405</u>	<u>sample</u>								

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-107 DEPTH TO PRODUCT: _____

DATE: 11-9-18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1410

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 23.36

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

(ft btoc)

TOTAL DEPTH: 50.05 >>>>>>>

(ft btoc) $24.69 \times 1.17 = 4.53 \times 3 = 13.61$

46'

Arrived at: _____

PURGE VOLUME: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals)

2-inch or 1-inch

Purging 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: 1223	2.0 1.0	5.46	18.10	0.435	664	2.35	243	()	
1239	3.0	5.49	18.25	0.390	422	2.08	232		
1255	5.0	5.58	18.33	0.369	214	2.71	234		
1311	7.0	5.70	18.13	0.359	5018	2.46	236		
1327	9.0	5.68	18.20	0.358	221	2.55	237		
1343	11.0	5.67	18.23	0.358	17.6	2.50	238		
1351	12.0	5.63	18.32	0.360	12.1	2.10	240		
1359	13.0	5.61	18.42	0.361	4.1	1.71	242		
1407	14.0	5.61	18.55	0.362	3.6	1.70	244		
1410	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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION

WEATHER:	<u>COLD - RAINING</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>EVERGREEN</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: ML-108 DEPTH TO PRODUCT: _____ DATE: 11/8/18

PURGE METHOD: Low Flow/Low Stress TIME: 12:05

PURGE EQUIPMENT (CIRCLE ONE)
 GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 21.08
 (ft btoc)
 TOTAL DEPTH: 36.35 >>>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
 (ft btoc) 28
 PURGE VOLUME: 7.5

Arrived at: _____ WELL DIAMETER (inches): (circle one)
 Initial PID = _____ 2-inch or 1-inch
 Purging 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: 1320	4.1	5.24	15.81	0.459	138	3.74	243	200 ()	21.30
1330	> 2	5.20	16.83	0.477	37.8	8.32	255	300	21.50
1340	0.5	5.29	17.00	0.477	10.2	0.00	255	300	21.48
1350	5.9	5.33	17.20	0.483	1.8	0.00	253	300	21.45
1400	6.5	5.38	16.62	0.489	1.0	0.00	252	300	21.45
1410	8.0	5.45	16.38	0.493	0.5	0.00	250	300	21.45
1415	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	2	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 65°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>B. Uyschik</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW 109 DEPTH TO PRODUCT: _____ DATE: 11/15/18

PURGE METHOD: Low Flow/Low Stress :

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

TIME: _____

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DUP-4 DEPTH TO WATER: 14.95

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
30'

(ft btoc) TOTAL DEPTH: 34.87 >>>>>>>

(ft btoc) PURGE VOLUME: 10'

Arrived at: _____

Initial PID = _____

Purging PID = _____

WELL DIAMETER (Inches): (circle one)

2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1455	2.1	4.83	15.87	2.62	35.8	0.97	190	500	15.30
1505	3.5	4.81	16.52	2.61	9.7	0.73	227	500	15.45
1515	6.0	4.72	16.67	2.61	1.0	0.06	230	500	15.60
1525	8.0	4.76	16.66	2.61 2.62	0.0	0.00	223	500	15.60
1535	10.0	4.76	16.70	2.62	0.0	0.00	217	500	15.60
1540	Sample								
COMMENTS: <u>DUP-4 for metals Tot + Diss metals</u>									

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	12	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 45°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: ML-110 DEPTH TO PRODUCT: _____ DATE: 11/9/18

PURGE METHOD: Low Flow/Low Stress TIME: _____

PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 30.13 (ft btoc)
TOTAL DEPTH: 79.10 (ft btoc) >>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 74
PURGE VOLUME: 24 (gals)

Arrived at: _____ WELL DIAMETER (inches): (circle one)
Initial PID = _____ 2-inch or 1-inch
Purging 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: <u>1400</u>		<u>5.26</u>	<u>15.54</u>	<u>0.637</u>	<u>25.9</u>	<u>3.53</u>	<u>280</u>	<u>500</u>	<u>42.15</u>
<u>1410</u>	<u>2</u>	<u>5.29</u>	<u>16.24</u>	<u>0.636</u>	<u>9.8</u>	<u>0.14</u>	<u>270</u>	<u>400</u>	<u>42.10</u>
<u>1420</u>	<u>5</u>	<u>5.22</u>	<u>16.85</u>	<u>0.636</u>	<u>1.8</u>	<u>6.01</u>	<u>266</u>	<u>300</u>	<u>42.10</u>
<u>1430</u>	<u>7</u>	<u>5.23</u>	<u>17.08</u>	<u>0.633</u>	<u>2.3</u>	<u>0.00</u>	<u>261</u>	<u>300</u>	<u>42.70</u>
<u>1440</u>	<u>10</u>	<u>5.22</u>	<u>17.14</u>	<u>0.633</u>	<u>0.0</u>	<u>0.00</u>	<u>260</u>	<u>300</u>	<u>42.55</u>
<u>1450</u>	<u>12</u>	<u>5.21</u>	<u>17.15</u>	<u>0.621</u>	<u>0.0</u>	<u>0.00</u>	<u>258</u>	<u>300</u>	<u>42.60</u>
<u>1500</u>	<u>15</u>	<u>5.21</u>	<u>17.18</u>	<u>0.629</u>	<u>0.0</u>	<u>0.00</u>	<u>256</u>	<u>300</u>	<u>42.65</u>
<u>1510</u>	<u>17</u>	<u>5.20</u>	<u>17.22</u>	<u>0.628</u>	<u>0.0</u>	<u>0.00</u>	<u>252</u>	<u>300</u>	<u>42.30</u>
<u>1520</u>	<u>20</u>	<u>5.23</u>	<u>17.12</u>	<u>0.627</u>	<u>0.0</u>	<u>0.00</u>	<u>249</u>	<u>300</u>	<u>42.28</u>
<u>1530</u>	<u>22.5</u>	<u>5.27</u>	<u>17.17</u>	<u>0.628</u>	<u>0.0</u>	<u>0.00</u>	<u>248</u>	<u>300</u>	<u>42.70</u>
<u>1540</u>	<u>25</u>	<u>5.21</u>	<u>17.24</u>	<u>0.628</u>	<u>0.7</u>	<u>0.00</u>	<u>246</u>	<u>300</u>	<u>42.60</u>
<u>1545</u>	<u>sample</u>								

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 55°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>B. Upchurch</u> 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

Wood Environment & Infrastructure Solutions, 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: 11/15/18

PURGE METHOD: Low Flow/Low Stress
PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 20.17
(ft btoc) TOTAL DEPTH: 46.50 >>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 36'
(ft btoc)

Arrived at: _____ PURGE VOLUME: 12.9
Initial PID = _____ (gals) WELL DIAMETER (inches): (circle one)
2-inch or 1-inch

Purging 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	4.1	5.55	12.48	0.865	35.2	4.49	224	400	20.70
1240	2.1	6.03	16.25	0.865	38.5	0.49	128	400	22.85
1250	4.0	6.01	16.39	0.867	51.5	0.09	130	500	23.05
1300	2.5	5.98	16.38	0.866	57.8	0.00	12.8	500	23.25
1310	2.8	5.96	16.40	0.867	38.0	0.00	12.8	500	22.95
1320	2.10	5.96	16.41	0.867	47.1	0.00	12.2	500	23.05
1330	12.0	5.95	16.36	0.867	46.2	0.00	12.0	500	23.05
1340	1.3	5.95	16.44	0.867	28.9	0.00	11.6	400	22.54
1350	13.5	5.96	16.63	0.867	19.6	0.00	11.7	300	20.80
1400	14.5	5.95	16.67	0.866	21.1	0.00	11.6	300	21.70
1410	15.5	5.92	16.94	0.870	77.2	0.00	12.1	300	21.25
1420	16.5	5.95	17.23	0.869	64.1	0.00	12.0	300	21.15
1430	17.0	5.95	17.30	0.868	69.6	0.00	12.0	200	21.05
1435	sample								

COMMENTS: turbidity keep spiking up and down

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	12	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 45°</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>B. Urdyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-112 DEPTH TO PRODUCT: _____

DATE: 11/8/18

PURGE METHOD: Low Flow/Low Stress

TIME: 1230

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 15.75

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
21

(ft btoc)

TOTAL DEPTH: 25.54

(ft btoc)

PURGE VOLUME: 4.8

(gals)

Arrived at: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

2-inch or 1-inch

Purging 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: <u>1100</u>		<u>5.92</u>	<u>16.52</u>	<u>0.524</u>	<u>70.3</u>	<u>0.82</u>	<u>252</u>	<u>200 ()</u>	<u>16.40</u>
<u>1110</u>	<u>41</u>	<u>5.95</u>	<u>17.21</u>	<u>0.539</u>	<u>49.0</u>	<u>0.29</u>	<u>240</u>	<u>150</u>	<u>16.37</u>
<u>1120</u>	<u>2.0</u>	<u>5.94</u>	<u>18.00</u>	<u>0.538</u>	<u>12.1</u>	<u>0.05</u>	<u>226</u>	<u>150</u>	<u>16.30</u>
<u>1130</u>	<u>23</u>	<u>5.94</u>	<u>18.40</u>	<u>0.536</u>	<u>11.9</u>	<u>0.00</u>	<u>218</u>	<u>150</u>	<u>16.23</u>
<u>1140</u>	<u>24</u>	<u>5.93</u>	<u>18.89</u>	<u>0.533</u>	<u>3.6</u>	<u>0.00</u>	<u>208</u>	<u>150</u>	<u>16.15</u>
<u>1150</u>	<u>5</u>	<u>5.95</u>	<u>19.19</u>	<u>0.534</u>	<u>3.6</u>	<u>0.00</u>	<u>201</u>	<u>150</u>	<u>16.15</u>
<u>1155</u>	<u>Sample</u>								
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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 60°</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-113 DEPTH TO PRODUCT: _____

DATE: 11/15/18

PURGE METHOD: Low Flow/Low Stress

TIME: 12:18

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DUP-3 DEPTH TO WATER: 29.32
Time 12:00 (ft btoc)

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
39.0

Arrived at: 1015 TOTAL DEPTH: 44.1
Initial PID = _____ (ft btoc)
Purging PID = _____ PURGE VOLUME: 2.41 x 3
(gals) 7.23

WELL DIAMETER (inches): (circle one)
 2-inch 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1110		3.65	17.79	1.91	459	8.97	442	700 (125)	
1120	1.0	3.65	19.86	1.95	144	4.69	429	700 (125)	31.85
1128	2.0	3.66	19.15	1.93	49.6	3.67	425	700	31.98
1136	3.0	3.68	19.35	1.91	5.1	2.56	426	700	32.05
1144	4.0	3.68	19.50	1.91	0.8	2.01	424	700	32.09
1152	5.0	3.69	19.55	1.91	0.5	1.46	421	700	32.05
1206	6.0	3.70	19.74	1.91	0.0	0.97	417	700	32.08
1205	6.5	3.70	19.72	1.91	0.0	0.69	415	700	32.10
1209	7.0	3.70	19.78	1.91	0.0	0.64	414	700	32.10
1214	7.5	3.71	19.88	1.91	0.0	0.59	412	700	32.12

COMMENTS: DUP-3 for Nitrate + Sulfate

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Cloudy/M:st 45°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Blake Carlson</u>
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]

$0.163 \times 14.78 \times 3$
 $2.41 \times 3 = 7.23$

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: M62-114 DEPTH TO PRODUCT: _____ DATE: 11/15/18

PURGE METHOD: Low Flow/Low Stress TIME: 1452

PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOSS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 25.90 DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 41.00
(ft btoc) TOTAL DEPTH: 46.20
(ft btoc) PURGE VOLUME: 0.163 x 20.3 x 3

Arrived at: 1300 WELL DIAMETER (inches): (circle one)
Initial PID = _____ 2-inch or 1-inch
Purging PID = _____ 9.93

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: <u>1328</u>		<u>3.96</u>	<u>16.48</u>	<u>1.14</u>	<u>243</u>	<u>3.04</u>	<u>417</u>	<u>600 (110)</u>	
<u>1344</u>	<u>2.0</u>	<u>3.96</u>	<u>18.08</u>	<u>1.16</u>	<u>48.6</u>	<u>1.11</u>	<u>384</u>	<u>600</u>	<u>26.31</u>
<u>1356</u>	<u>3.5</u>	<u>3.92</u>	<u>18.68</u>	<u>1.17</u>	<u>61.3</u>	<u>0.50</u>	<u>363</u>	<u>600</u>	<u>26.38</u>
<u>1408</u>	<u>5.0</u>	<u>3.96</u>	<u>18.34</u>	<u>1.16</u>	<u>61.5</u>	<u>0.31</u>	<u>348</u>	<u>600</u>	<u>26.42</u>
<u>1420</u>	<u>6.5</u>	<u>3.96</u>	<u>18.27</u>	<u>1.16</u>	<u>46.5</u>	<u>0.28</u>	<u>341</u>	<u>600</u>	<u>26.48</u>
<u>1431</u>	<u>8.0</u>	<u>3.96</u>	<u>18.26</u>	<u>1.16</u>	<u>55.2</u>	<u>0.21</u>	<u>339</u>	<u>600</u>	<u>26.50</u>
<u>1438</u>	<u>9.0</u>	<u>3.96</u>	<u>18.28</u>	<u>1.16</u>	<u>48.9</u>	<u>0.18</u>	<u>338</u>	<u>600</u>	<u>26.52</u>
<u>1445</u>	<u>10.0</u>	<u>3.96</u>	<u>18.24</u>	<u>1.16</u>	<u>52.1</u>	<u>0.15</u>	<u>337</u>	<u>600</u>	<u>26.53</u>
<u>1450</u>	<u>10.5</u>	<u>3.98</u>	<u>18.34</u>	<u>1.16</u>	<u>48.8</u>	<u>0.13</u>	<u>333</u>	<u>600</u>	<u>26.55</u>

COMMENTS: No Key lock

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Cloudy Mist, 42°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Blake Gresson</u> 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

Wood Environment & Infrastructure Solutions, 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: 11-12-18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1310

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SEDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 15.08

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
19.0

(ft btoc)

TOTAL DEPTH: 22.25

(ft btoc)

Arrived at: _____

PURGE VOLUME: 3.65

WELL DIAMETER (Inches): (circle one)

Initial PID = _____

(gals)

2-inch or 1-inch

Purging 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:	<u>1150</u>	<u>0.25</u>	<u>3.72</u>	<u>19.05</u>	<u>0.582</u>	<u>163</u>	<u>2.79</u>	<u>463</u>	<u>15.37</u>
	<u>1155</u>	<u>0.5</u>	<u>3.68</u>	<u>19.28</u>	<u>0.555</u>	<u>118</u>	<u>1.87</u>	<u>463</u>	<u>15.37</u>
	<u>1205</u>	<u>1.0</u>	<u>3.67</u>	<u>19.42</u>	<u>0.539</u>	<u>62.1</u>	<u>1.03</u>	<u>463</u>	<u>15.37</u>
	<u>1225</u>	<u>2.0</u>	<u>3.50</u>	<u>18.41</u>	<u>1.06</u>	<u>21.2</u>	<u>0.65</u>	<u>489</u>	<u>15.37</u>
	<u>1235</u>	<u>2.5</u>	<u>3.53</u>	<u>17.69</u>	<u>1.06</u>	<u>0.0</u>	<u>0.43</u>	<u>490</u>	<u>15.37</u>
	<u>1245</u>	<u>3.0</u>	<u>3.59</u>	<u>17.66</u>	<u>1.06</u>	<u>0.0</u>	<u>0.33</u>	<u>489</u>	<u>15.37</u>
	<u>1255</u>	<u>3.5</u>	<u>3.60</u>	<u>17.63</u>	<u>1.06</u>	<u>0.0</u>	<u>0.28</u>	<u>489</u>	<u>15.37</u>
	<u>1305</u>	<u>4.0</u>	<u>3.61</u>	<u>17.60</u>	<u>1.07</u>	<u>0.0</u>	<u>0.25</u>	<u>4.89</u>	<u>15.37</u>
	<u>1310</u>	<i>Collect Sample</i>							
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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>COLD!!! - RAINING!!!</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>EVER QUICKER</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-116 DEPTH TO PRODUCT: _____

DATE: 11/8/18

PURGE METHOD: Low Flow/Low Stress :

TIME: _____

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 30.30

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
32

(ft btoc) TOTAL DEPTH: 33.74

(ft btoc) PURGE VOLUME: 1.7

(gals)

Arrived at: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

2-inch or 1-inch

Purging 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		4.16	15.57	1.19	75.4	4.93	292	150	30.75
1500	<L	4.16	17.38	1.40	62.6	2.75	302	150	30.70
1510	0.5	4.17	20.45	1.41	200	4.93	288	150	31.50
1520	1.0	4.14	18.78	1.39	95.4	3.43	303	150	31.45
1530	3.1	4.15	18.69	1.39	71.8	3.00	299	150	31.60
1540	1.5	4.18	18.30	1.42	30.5	2.13	308	150	31.60
1550	>1.5	4.32	19.20	1.42	75.5	2.70	296	150	
1600									

COMMENTS: ISSUES with pump flow; purged dry

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>cloudy 60°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>B. Updyke</u>
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]

sample 11/9/18 at 1230

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-117 DEPTH TO PRODUCT: _____

DATE: ~~11-12-18~~ 11-13-18

PURGE METHOD: Low Flow/Low Stress

TIME: 1525 1450

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 13.40

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
21.0'

(ft btoc) TOTAL DEPTH: 25.20

(ft btoc) PURGE VOLUME: 6.0

(gals)

Arrived at: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

2-inch or 1-inch

Purging 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: 1422	0.25	4.17	17.01	0.338	>1000	1.92	436	400	13.66
1430	1.0	4.11	17.39	0.341	>1000	1.48	450		13.66
1440	2.0	4.09	17.58	0.342	680	1.35	454		13.66
1450	3.0	4.11	17.66	0.342	550	1.32	455		13.66
1500	4.0	4.13	17.70	0.342	293	1.28	457		13.66
1510	5.0	4.14	17.73	0.342	146	1.27	458		13.66
1515	5.5	4.16	17.70	0.343	39.5	1.22	462		13.66
1520	6.0	4.15	17.69	0.343	7.2	1.20	463		13.66
1525	Collect Sample							400	13.22
11-3-18 1355	1.0	4.21	18.17	0.332	>1000	2.57	409	400	13.22
1405	2.0	3.97	18.14	0.338	739	2.18	443		13.22
1415	3.0	3.93	18.16	0.340	302	1.91	455		13.22
1425	4.0	3.92	18.28	0.341	35.1	1.26	465		13.22
1435	5.0	3.94	18.11	0.344	10.9	1.56	472		13.22
1445	6.0	3.96	18.12	0.344	6.4	1.55	473		13.22
COMMENTS:	Generator Stopped Working before Sample was Collected on 11-12-18 Purged again on 11-13-18 and Collected Sample @ 1450								

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>COLD!!! RAIN!!!</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>EVER GUILLEN</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-119 DEPTH TO PRODUCT: _____

DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 12:18

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOSS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 42.48

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) <div style="text-align: center; font-size: 2em;">52</div>
--

(ft btoc)

TOTAL DEPTH: 58.1 57.6

(ft btoc)

Arrived at: 1000

PURGE VOLUME: 0.163 x 15 x 12 x 3

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals) 7.39

2-inch or 1-inch

Purging 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: <u>1030</u>	<u>0.25</u>	<u>6.22</u>	<u>16.36</u>	<u>0.598</u>	<u>276</u>	<u>1.14</u>	<u>27</u>	<u>300 (142)</u>	<u>42.79</u>
<u>1042</u>	<u>1.00</u>	<u>6.33</u>	<u>18.54</u>	<u>0.591</u>	<u>63.3</u>	<u>0.99</u>	<u>18</u>	<u>300</u>	<u>42.80</u>
<u>1059</u>	<u>2.00</u>	<u>6.37</u>	<u>20.36</u>	<u>0.576</u>	<u>5.9</u>	<u>0.59</u>	<u>14</u>	<u>300</u>	<u>42.80</u>
<u>1116</u>	<u>3.00</u>	<u>6.37</u>	<u>22.34</u>	<u>0.568</u>	<u>1.1</u>	<u>0.12</u>	<u>10</u>	<u>400</u>	<u>42.90</u>
<u>1129</u>	<u>4.00</u>	<u>6.38</u>	<u>22.48</u>	<u>0.551</u>	<u>0.5</u>	<u>0.05</u>	<u>5</u>	<u>400</u>	<u>42.88</u>
<u>1143</u>	<u>5.00</u>	<u>6.36</u>	<u>22.64</u>	<u>0.550</u>	<u>0.0</u>	<u>0.02</u>	<u>4</u>	<u>400</u>	<u>42.91</u>
<u>1156</u>	<u>6.00</u>	<u>6.36</u>	<u>22.97</u>	<u>0.549</u>	<u>0.0</u>	<u>0.00</u>	<u>3</u>	<u>400</u>	<u>42.90</u>
<u>1209</u>	<u>7.00</u>	<u>6.35</u>	<u>23.15</u>	<u>0.547</u>	<u>0.0</u>	<u>0.00</u>	<u>1</u>	<u>400</u>	<u>42.90</u>
<u>1216</u>	<u>7.50</u>	<u>6.35</u>	<u>23.33</u>	<u>0.547</u>	<u>0.0</u>	<u>0.00</u>	<u>1</u>	<u>400</u>	<u>42.91</u>

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Sunny, cool breeze, 40°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Blake Gresson</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-120 DEPTH TO PRODUCT: _____

DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress:

TIME: 1516

~~PURGE EQUIPMENT (CIRCLE ONE)~~

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 44.95

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
 >>>>>>>> 64.0 58.00

(ft btoc)

TOTAL DEPTH: 69.0

(ft btoc)

Arrived at: 1240

PURGE VOLUME: 0.163 x 24.05 x 3

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals) 11.76

2-inch or 1-inch

Purging 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: <u>1306</u>		<u>6.07</u>	<u>20.99</u>	<u>0.610</u>	<u>3.1</u>	<u>1.63</u>	<u>113</u>	<u>400 (151)</u>	
<u>1336</u>	<u>2.0</u>	<u>5.63</u>	<u>23.96</u>	<u>0.671</u>	<u>35.9</u>	<u>0.47</u>	<u>132</u>	<u>400</u>	<u>47.35</u>
<u>1400</u>	<u>4.0</u>	<u>5.83</u>	<u>23.65</u>	<u>0.692</u>	<u>13.6</u>	<u>0.34</u>	<u>132</u>	<u>400</u>	<u>46.95</u>
<u>1430</u>	<u>6.0</u>	<u>5.86</u>	<u>22.75</u>	<u>0.687</u>	<u>19.5</u>	<u>0.24</u>	<u>132</u>	<u>500</u>	<u>48.05</u>
<u>1447</u>	<u>8.0</u>	<u>5.82</u>	<u>22.12</u>	<u>0.692</u>	<u>14.1</u>	<u>0.11</u>	<u>136</u>	<u>600</u>	<u>48.51</u>
<u>1456</u>	<u>10.0</u>	<u>5.63</u>	<u>22.84</u>	<u>0.690</u>	<u>15.6</u>	<u>0.10</u>	<u>124</u>	<u>600</u>	<u>48.92</u>
<u>1504</u>	<u>11.0</u>	<u>5.42</u>	<u>22.70</u>	<u>0.693</u>	<u>9.0</u>	<u>0.10</u>	<u>135</u>	<u>600</u>	<u>49.00</u>
<u>1514</u>	<u>12.0</u>	<u>5.82</u>	<u>22.68</u>	<u>0.694</u>	<u>7.2</u>	<u>0.09</u>	<u>132</u>	<u>600</u>	<u>49.06</u>

COMMENTS: Could not get pump past 59.00 from TOC, set @ 58.00 btoc
-Water stopped pumping for a minute, had to turn off and on pump control

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Sunny, 50°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Blake Corpeison</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: MW-121 DEPTH TO PRODUCT: _____

DATE: 11/14/18
TIME: 1430

PURGE METHOD: Low Flow/Low Stress
PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 16.60
(ft btoc)
TOTAL DEPTH: 36.61
(ft btoc)
PURGE VOLUME: 9.8
(gals)

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
26

Arrived at: _____
Initial PID = _____
Purging PID = _____

WELL DIAMETER (inches): (circle one)
 2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: <u>1445</u>	<u>2.1</u>	<u>6.39</u>	<u>15.9</u>	<u>0.360</u>	<u>25.5</u>	<u>1.17</u>	<u>173</u>	<u>40</u>	<u>17.80</u>
<u>1455</u>	<u>1.0</u>	<u>6.45</u>	<u>17.75</u>	<u>0.298</u>	<u>17.1</u>	<u>0.53</u>	<u>149</u>	<u>40</u>	<u>19.90</u>
<u>1505</u>	<u>1.5</u>	<u>6.30</u>	<u>18.34</u>	<u>0.273</u>	<u>4.5</u>	<u>0.52</u>	<u>157</u>	<u>40</u>	<u>19.97</u>
<u>1515</u>	<u>2.5</u>	<u>6.21</u>	<u>18.30</u>	<u>0.257</u>	<u>0.8</u>	<u>0.59</u>	<u>158</u>	<u>40</u>	<u>20.05</u>
<u>1525</u>	<u>3.5</u>	<u>6.19</u>	<u>18.60</u>	<u>0.254</u>	<u>0.0</u>	<u>0.60</u>	<u>160</u>	<u>40</u>	<u>20.35</u>
<u>1535</u>	<u>4.5</u>	<u>6.17</u>	<u>18.55</u>	<u>0.258</u>	<u>0.0</u>	<u>0.49</u>	<u>164</u>	<u>40</u>	<u>20.57</u>
<u>1545</u>	<u>5.5</u>	<u>6.18</u>	<u>18.62</u>	<u>0.265</u>	<u>0.0</u>	<u>0.42</u>	<u>165</u>	<u>40</u>	<u>20.75</u>
<u>1555</u>	<u>6.5</u>	<u>6.19</u>	<u>18.78</u>	<u>0.272</u>	<u>0.0</u>	<u>0.31</u>	<u>165</u>	<u>40</u>	<u>20.90</u>
<u>1605</u>	<u>8.0</u>	<u>6.26</u>	<u>18.85</u>	<u>0.285</u>	<u>0.0</u>	<u>0.23</u>	<u>162</u>	<u>50</u>	<u>21.15</u>
<u>1615</u>	<u>9.5</u>	<u>6.22</u>	<u>18.87</u>	<u>0.287</u>	<u>0.0</u>	<u>0.27</u>	<u>161</u>	<u>50</u>	<u>21.80</u>
<u>1620</u>	<u>10.0</u>	<u>6.23</u>	<u>18.95</u>	<u>0.291</u>	<u>0.0</u>	<u>0.35</u>	<u>160</u>	<u>50</u>	<u>21.85</u>
<u>1025</u>	<u>Sample</u>								

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Rain 50°</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES - Atlanta, GA</u>
SAMPLER:	<u>B. Updyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: OW-1

DEPTH TO PRODUCT: _____

DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress

TIME: 15:50

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 20.37

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

(ft btoc)

TOTAL DEPTH: 43.02

38

(ft btoc)

Arrived at: 13:50

PURGE VOLUME: 22.65 x 0.163 = 3.69 x 3

WELL DIAMETER (Inches): (circle one)

Initial PID = _____

(gals) = 11.1

2-inch or 1-inch

Purging PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial:	0	6.26	16.44	1.96	3.9	2.61	103	450	20.24
1429	2.0	6.27	16.85	1.55	0.0	1.34	30	450	20.29
1446	4.0	6.25	16.79	1.49	0.0	1.25	24	450	20.31
1504	6.0	6.25	16.85	1.44	0.0	1.13	17	450	20.32
1521	8.0	6.23	16.84	1.43	0.0	1.10	15	450	20.31
1536	10.0	6.23	16.75	1.40	0.0	1.07	13	450	20.31
1542	10.5	6.23	16.71	1.40	0.0	1.07	13	450	20.31
1548	11.1	6.22	16.71	1.39	0.0	1.07	13	450	20.31

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION

WEATHER:	Clear + Sunny, Temp
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: OCW-2 DEPTH TO PRODUCT: _____

DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1245

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 20.28

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
38

(ft btoc)

TOTAL DEPTH: 43.81

(ft btoc)

PURGE VOLUME: 11.5

(gals)

Arrived at: _____

WELL DIAMETER (inches): (circle one)

Initial PID = _____

2-inch or 1-inch

Purging PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1315	2.1	5.92	15.80	1.12	795	0.91	61	600	20.90
1325	4.0	6.02	16.44	1.12	396	0.30	40	600	21.10
1335	8.5	6.06	16.48	1.18	34.0	0.01	29	600	21.13
1345	12.0	6.07	16.54	1.42	11.1	0.00	27	600	21.10
1350	13.5	6.10	16.57	1.43	6.3	0.00	19	600	21.10
1355	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	22	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>sunny 500</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES - Atlanta, GA
SAMPLER:	<u>B. Wodyke</u> 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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: OBW-3 DEPTH TO PRODUCT: _____ DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress :

TIME: _____

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 20.73

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
38'

(ft btoc) TOTAL DEPTH: 43.93 >>>>>>>

(ft btoc)

Arrived at: _____

PURGE VOLUME: 11.3

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals)

2-inch or 1-inch

Purging 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: <u>1410</u>	<u>2.1</u>	<u>4.88</u>	<u>15.34</u>	<u>0.801</u>	<u>694</u>	<u>0.58</u>	<u>174</u>	<u>600</u>	<u>21.25</u>
<u>1420</u>	<u>2.3</u>	<u>4.90</u>	<u>16.26</u>	<u>0.814</u>	<u>>1000</u>	<u>0.00</u>	<u>202</u>	<u>600</u>	<u>21.35</u>
<u>1430</u>	<u>6.5</u>	<u>5.05</u>	<u>16.42</u>	<u>0.851</u>	<u>81.4</u>	<u>0.00</u>	<u>205</u>	<u>600</u>	<u>21.35</u>
<u>1440</u>	<u>9.0</u>	<u>5.08</u>	<u>16.52</u>	<u>0.869</u>	<u>26.1</u>	<u>0.00</u>	<u>207</u>	<u>600</u>	<u>21.35</u>
<u>1450</u>	<u>12.5</u>	<u>5.09</u>	<u>16.47</u>	<u>0.875</u>	<u>7.9</u>	<u>0.00</u>	<u>209</u>	<u>600</u>	<u>21.35</u>
<u>1455</u>	<u>sample</u>								

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>sunny 50°</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>B. Underhill</u> 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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-1 DEPTH TO PRODUCT: _____ DATE: 11/9/18 12

PURGE METHOD: Low Flow/Low Stress
PURGE EQUIPMENT [CIRCLE ONE]
 GRUNDFOSS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 14.63
 (ft btoc) TOTAL DEPTH: 25.13 >>>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
 (ft btoc) PURGE VOLUME: 10.5 x 0.04 = 0.42 x 3 **22.5**
 (gals) = 1.26

Arrived at: 1030 WELL DIAMETER (inches): (circle one)
 Initial PID = _____ 2-inch or 1-inch
 Purging 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: 1057	0.4	6.93	13.20	0.387	67.1	3.71	176	150	17.46
1107	0.4	6.16	13.82	0.361	45.5	3.32	128	150	18.42
1117	0.8	6.16	13.89	0.352	26.7	2.04	113	150	19.12
1122	1.0	6.14	13.95	0.351	20.1	2.02	110	150	19.28
1127	1.2	6.14	13.92	0.351	18.9	2.00	109	150	19.35
1132	1.4	6.15	13.94	0.351	17.8	1.96	107	150	19.45

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 [See Sampling Scope of Work to confirm if well sampled for VOCs]

40° GENERAL INFORMATION	
WEATHER:	<u>Raining, Temp 50°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u> 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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-3 DEPTH TO PRODUCT: _____

DATE: 11/13/18
 TIME: 1455

PURGE METHOD: Low Flow/Low Stress

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 26.55

(ft btoc) TOTAL DEPTH: 40.13

(ft btoc) PURGE VOLUME: 13.58 x 0.04 = 0.54 x 3

(gals) = 1.62

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
37.5

Arrived at: 1345
 Initial PID = _____
 Purging PID = _____

WELL DIAMETER (inches): (circle one)
 2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1413	0	3.78	12.19	1.28	69.5	3.15	377	150 ()	27.02
1423	0.4	3.80	12.66	1.20	30.4	2.06	430	150	27.04
1428	0.6	3.83	13.05	1.18	22.9	2.10	431	150	27.00
1433	0.8	3.84	13.10	1.15	20.7	1.84	438	150	27.03
1438	1.0	3.86	13.19	1.14	19.0	1.66	443	150	27.05
1443	1.2	3.85	13.18	1.13	15.8	1.57	447	150	27.05
1448	1.4	3.84	13.16	1.11	12.1	1.52	452	150	27.04
1453	1.6	3.83	13.15	1.09	9.7	1.43	455	150	27.03

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Overcast, slight rain, Temp 50°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-4 DEPTH TO PRODUCT: _____

DATE: 11/12/18

PURGE METHOD: Low Flow/Low Stress

TIME: 1545

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOSS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 27.69

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
<u>31.25</u>

(ft btoc) >>>>>>>>

TOTAL DEPTH: 33.79

(ft btoc)

PURGE VOLUME: 6.1 x 0.04 = 0.244 x 3

WELL DIAMETER (inches): (circle one)

2-inch or 1-inch

Arrived at: 1448

Initial PID = _____

(gals) = 0.73

Purging 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: <u>1512</u>	<u>0</u>	<u>4.74</u>	<u>21.94</u>	<u>0.289</u>	<u>94.1</u>	<u>2.10</u>	<u>285</u>	<u>150</u>	<u>28.87</u>
<u>1517</u>	<u>0.2</u>	<u>4.53</u>	<u>20.37</u>	<u>0.294</u>	<u>79.8</u>	<u>2.17</u>	<u>253</u>	<u>150</u>	<u>29.16</u>
<u>1522</u>	<u>0.4</u>	<u>4.47</u>	<u>19.69</u>	<u>0.294</u>	<u>78.9</u>	<u>1.63</u>	<u>271</u>	<u>150</u>	<u>29.34</u>
<u>1527</u>	<u>0.6</u>	<u>4.44</u>	<u>16.05</u>	<u>0.319</u>	<u>13.0</u>	<u>2.00</u>	<u>292</u>	<u>150</u>	<u>29.43</u>
<u>1532</u>	<u>0.8</u>	<u>4.36</u>	<u>15.62</u>	<u>0.324</u>	<u>13.3</u>	<u>1.95</u>	<u>307</u>	<u>150</u>	<u>29.50</u>
<u>1537</u>	<u>1.0</u>	<u>4.35</u>	<u>15.69</u>	<u>0.324</u>	<u>13.2</u>	<u>1.92</u>	<u>311</u>	<u>150</u>	<u>29.52</u>
<u>1542</u>	<u>1.2</u>	<u>4.32</u>	<u>15.50</u>	<u>0.324</u>	<u>9.4</u>	<u>1.93</u>	<u>315</u>	<u>150</u>	<u>29.54</u>
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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Raining, Temp 40°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-5 DEPTH TO PRODUCT: _____ DATE: 11/14/18
 PURGE METHOD: Low Flow/Low Stress TIME: 1158
 PURGE EQUIPMENT [CIRCLE ONE]
 GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()
 DUP./REP. OF: _____ DEPTH TO WATER: 22.12
 (ft btoc) TOTAL DEPTH: 32.82 >>>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 30
 (ft btoc) PURGE VOLUME: 10.7 x 0.04 = 0.43 x 3
 (gals) = 1.3

Arrived at: 1000 WELL DIAMETER (Inches): (circle one)
 Initial PID = _____ 2-inch or 1-inch
 Purging 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:	<u>0</u>	<u>8.98</u>	<u>11.90</u>	<u>1.42</u>	<u>375</u>	<u>3.05</u>	<u>416</u>	<u>2.00</u>	<u>22.08</u>
<u>1133</u>	<u>0.5</u>	<u>4.02</u>	<u>13.86</u>	<u>1.38</u>	<u>58.8</u>	<u>2.26</u>	<u>431</u>	<u>2.00</u>	<u>22.77</u>
<u>1137</u>	<u>0.75</u>	<u>4.03</u>	<u>14.07</u>	<u>1.36</u>	<u>51.3</u>	<u>1.81</u>	<u>439</u>	<u>2.00</u>	<u>22.78</u>
<u>1143</u>	<u>1.0</u>	<u>4.04</u>	<u>14.06</u>	<u>1.34</u>	<u>22.8</u>	<u>1.54</u>	<u>442</u>	<u>2.00</u>	<u>22.81</u>
<u>1147</u>	<u>1.25</u>	<u>4.04</u>	<u>14.05</u>	<u>1.36</u>	<u>21.0</u>	<u>1.43</u>	<u>443</u>	<u>2.00</u>	<u>22.81</u>
<u>1153</u>	<u>1.5</u>	<u>4.05</u>	<u>14.19</u>	<u>1.36</u>	<u>13.3</u>	<u>1.30</u>	<u>445</u>	<u>2.00</u>	<u>22.81</u>
<u>1157</u>	<u>1.75</u>	<u>4.05</u>	<u>14.02</u>	<u>1.35</u>	<u>9.8</u>	<u>1.26</u>	<u>445</u>	<u>2.00</u>	<u>22.81</u>

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Overcast, slight rain, Temp</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u> 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

Wood Environment & Infrastructure Solutions, 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: 11/14/18
TIME: 5:14:52

PURGE METHOD: Low Flow/Low Stress
PURGE EQUIPMENT (CIRCLE ONE)
GRUNDFOS BLADDER **PERISTALTIC**

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 24.63
(ft btoc) **40.19** >>>>>>>>
TOTAL DEPTH: 40.19
(ft btoc)
PURGE VOLUME: 15.56 x 0.04 = 0.62 x 3
(gals) = 1.9 gal 0.62

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
37

Arrived at: 1350
Initial PID = _____
Purging PID = _____

WELL DIAMETER (inches): (circle one)
2-inch or **1-inch**

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: 1410	0	5.02	14.78	2.47	56.9	2.66	350	200	24.82
1420	0.5	4.82	14.87	1.78	12.0	1.60	344	200	24.89
1425	0.75	4.75	14.80	1.62	5.9	1.41	349	200	24.90
1430	1.0	4.72	14.76	1.55	3.5	1.31	352	200	24.90
1435	1.25	4.70	14.74	1.51	2.8	1.24	355	200	24.90
1440	1.50	4.70	14.71	1.49	1.9	1.20	357	200	24.90
1445	1.75	4.68	14.68	1.47	1.6	1.15	358	200	24.90
1450	2.0	4.67	14.61	1.44	1.3	1.11	360	200	24.90

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	12	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Overcast, Temp</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Daniel Howard</u> 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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-7 DEPTH TO PRODUCT: _____

DATE: 11/15/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1227

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS

BLADDER

PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 20.55

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

(ft btoc)

TOTAL DEPTH: 32.57 >>>>>>>

31.5

(ft btoc)

Arrived at: 1050

PURGE VOLUME: 12.02 x 0.04 = 0.48 x 3

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals) 1.44

2-inch or

1-inch

Purging PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump settling)	New Water Level
Initial: 1125	0	3.58	13.16	6.30	39.0	2.36	309	100	24.26
1130	0.125	3.64	14.838	6.10	15.3	1.82	307	100	26.24
1135	0.25	3.62	14.34	6.01	16.6	1.79	307	100	26.92
1140	0.375	3.62	14.14	5.88	22.3	1.75	307	100	27.49
1145	0.5	3.61	13.89	5.77	73.7	1.73	310	100	27.30
1150	0.625	3.61	13.72	5.74	169	1.63	311	100	27.30
1155	0.75	3.62	14.07	5.79	176	1.84	310	100	27.31
1200	0.875	3.69	14.39	5.77	164	1.35	302	100	27.31
1205	1.0	3.88	14.84	5.84	27.6	0.97	271	100	27.31
1210	1.125	3.90	14.74	5.87	26.8	1.01	259	100	27.32
1215	1.25	3.90	14.57	5.88	22.0	1.07	250	100	27.32
1220	1.375	3.91	14.36	5.86	19.3	1.02	251	100	27.32
1225	1.5	3.91	14.14	5.99	11.7	1.08	242	100	27.34

COMMENTS: Well is slow recharge

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Overcast, Temp 45°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-8 DEPTH TO PRODUCT: _____

DATE: 11/15/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1452

PURGE EQUIPMENT [CIRCLE ONE]

GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: DUP-2
Time 1200

DEPTH TO WATER: 19.14

(ft btoc)

TOTAL DEPTH: 30.13

(ft btoc)

PURGE VOLUME: 10.99 x 0.04 = 0.44 x 3

(gals) = 1.3

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)

27.5

Arrived at: 1340

Initial PID = _____

Purging PID = _____

WELL DIAMETER (Inches): (circle one)

2-inch or 1-inch

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/min. (& pump setting)	New Water Level
Initial: <u>1410</u>	<u>0</u>	<u>6.12</u>	<u>13.29</u>	<u>4.95</u>	<u>86.7</u>	<u>2.38</u>	<u>109</u>	<u>200</u>	<u>19.26</u>
<u>1420</u>	<u>0.5</u>	<u>6.42</u>	<u>14.75</u>	<u>4.20</u>	<u>30.1</u>	<u>1.80</u>	<u>13</u>	<u>200</u>	<u>19.34</u>
<u>1425</u>	<u>0.75</u>	<u>6.38</u>	<u>14.74</u>	<u>3.98</u>	<u>15.6</u>	<u>1.72</u>	<u>-19</u>	<u>200</u>	<u>19.36</u>
<u>1430</u>	<u>1.0</u>	<u>6.38</u>	<u>14.77</u>	<u>3.74</u>	<u>10.3</u>	<u>1.70</u>	<u>-32</u>	<u>200</u>	<u>19.40</u>
<u>1435</u>	<u>1.25</u>	<u>6.38</u>	<u>14.72</u>	<u>3.52</u>	<u>8.4</u>	<u>1.68</u>	<u>-40</u>	<u>200</u>	<u>19.43</u>
<u>1440</u>	<u>1.5</u>	<u>6.38</u>	<u>14.70</u>	<u>3.34</u>	<u>7.2</u>	<u>1.67</u>	<u>-43</u>	<u>200</u>	<u>19.46</u>
<u>1445</u>	<u>1.75</u>	<u>6.38</u>	<u>14.60</u>	<u>3.29</u>	<u>6.6</u>	<u>1.66</u>	<u>-45</u>	<u>200</u>	<u>19.48</u>
<u>1450</u>	<u>2.0</u>	<u>6.38</u>	<u>14.53</u>	<u>3.27</u>	<u>6.6</u>	<u>1.66</u>	<u>-45</u>	<u>200</u>	<u>19.48</u>
COMMENTS:	<u>DUP-2 For Pest only (Time 1200)</u>								

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>overcast, Temp 40°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-9 DEPTH TO PRODUCT: _____ DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress TIME: 1146

PURGE EQUIPMENT (CIRCLE ONE)
 GRUNDFOS BLADDER PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 20.47
 (ft btoc) TOTAL DEPTH: 35.19 >>>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 32.5
 (ft btoc)

Arrived at: 1040 PURGE VOLUME: 14.72 x 0.04 = 0.59 WELL DIAMETER (inches): (circle one)
 Initial PID = _____ (gals) 1.8 2-inch or 1-inch
 Purging 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: <u>1107</u>	<u>0</u>	<u>5.56</u>	<u>11.12</u>	<u>0.634</u>	<u>95.2</u>	<u>6.95</u>	<u>245</u>	<u>200</u>	<u>20.30</u>
<u>1117</u>	<u>0.5</u>	<u>5.72</u>	<u>13.35</u>	<u>0.594</u>	<u>57.1</u>	<u>3.65</u>	<u>229</u>	<u>200</u>	<u>20.38</u>
<u>1122</u>	<u>0.75</u>	<u>5.79</u>	<u>14.22</u>	<u>0.562</u>	<u>6.5</u>	<u>2.82</u>	<u>225</u>	<u>200</u>	<u>20.38</u>
<u>1127</u>	<u>1.0</u>	<u>5.79</u>	<u>14.18</u>	<u>0.558</u>	<u>0.0</u>	<u>2.41</u>	<u>226</u>	<u>200</u>	<u>20.39</u>
<u>1132</u>	<u>1.25</u>	<u>5.79</u>	<u>14.30</u>	<u>0.558</u>	<u>0.0</u>	<u>1.79</u>	<u>226</u>	<u>200</u>	<u>20.39</u>
<u>1137</u>	<u>1.5</u>	<u>5.80</u>	<u>14.11</u>	<u>0.556</u>	<u>0.0</u>	<u>1.60</u>	<u>225</u>	<u>200</u>	<u>20.38</u>
<u>1142</u>	<u>1.75</u>	<u>5.79</u>	<u>13.99</u>	<u>0.556</u>	<u>0.0</u>	<u>1.53</u>	<u>223</u>	<u>200</u>	<u>20.40</u>
<u>1144</u>	<u>1.8</u>	<u>5.79</u>	<u>13.96</u>	<u>0.556</u>		<u>1.52</u>	<u>222</u>	<u>200</u>	<u>20.40</u>

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>@ Clear + Sunny, Temp 41°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u> 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: 6122-00-0154

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-10 DEPTH TO PRODUCT: _____ DATE: 11/16/18

PURGE METHOD: Low Flow/Low Stress TIME: 1310
PURGE EQUIPMENT [CIRCLE ONE]
 GRUNDFOS BLADDER **PERISTALTIC**

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 17.84 DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) **27.5**
 (ft btoc) 30.25 >>>>>>>>
 TOTAL DEPTH: 13.43 x 0.04 = 0.54 x 3
 (ft btoc) 12.41 x 0.04 = 0.5 x 3
 PURGE VOLUME: _____ WELL DIAMETER (inches): (circle one)
 (gals) = 1.5 2-inch or **1-inch**

Arrived at: 1210
 Initial PID = _____
 Purging 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: <u>1232</u>	<u>0</u>	<u>3.67</u>	<u>14.44</u>	<u>1.04</u>	<u>73.7</u>	<u>2.86</u>	<u>349</u>	<u>200</u>	<u>16.82</u>
<u>1242</u>	<u>0.5</u>	<u>3.65</u>	<u>14.58</u>	<u>1.03</u>	<u>0.0</u>	<u>3.71</u>	<u>400</u>	<u>200</u>	<u>16.83</u>
<u>1247</u>	<u>0.75</u>	<u>3.68</u>	<u>14.62</u>	<u>1.03</u>	<u>0.0</u>	<u>2.37</u>	<u>420</u>	<u>200</u>	<u>16.82</u>
<u>1252</u>	<u>1.0</u>	<u>3.68</u>	<u>14.69</u>	<u>1.03</u>	<u>0.0</u>	<u>2.21</u>	<u>436</u>	<u>200</u>	<u>16.82</u>
<u>1257</u>	<u>1.25</u>	<u>3.68</u>	<u>14.76</u>	<u>1.02</u>	<u>0.0</u>	<u>2.19</u>	<u>460</u>	<u>200</u>	<u>16.82</u>
<u>1302</u>	<u>1.5</u>	<u>3.68</u>	<u>14.77</u>	<u>1.02</u>	<u>0.0</u>	<u>2.17</u>	<u>459</u>	<u>200</u>	<u>16.82</u>
<u>1307</u>	<u>1.75</u>	<u>3.68</u>	<u>14.74</u>	<u>1.02</u>	<u>0.0</u>	<u>2.16</u>	<u>463</u>	<u>200</u>	<u>16.82</u>
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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION	
WEATHER:	<u>Clear & Sunny, Temp 43°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-11 DEPTH TO PRODUCT: _____ DATE: 11/8/18

PURGE METHOD: Low Flow/Low Stress TIME: 1252
 PURGE EQUIPMENT (CIRCLE ONE)
 GRUNDFOS **BLADDER** PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4 GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: 30.43
 (ft btoc) TOTAL DEPTH: 45.13 >>>>>>>> DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc) 42.5
 (ft btoc) PURGE VOLUME: 14.7 x 0.04 = 0.59 x 3
 (gals) 1.8 gal WELL DIAMETER (Inches): (circle one)
 2-Inch or **1-Inch**

Arrived at: 1100
 Initial PID = _____
 Purging 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: <u>1140</u>	<u>0.10</u>	<u>4.26</u>	<u>17.21</u>	<u>0.423</u>	<u>543</u>	<u>4.96</u>	<u>323</u>	<u>100</u>	<u>31.30</u>
<u>1150</u>	<u>0.35</u>	<u>4.23</u>	<u>16.67</u>	<u>0.427</u>	<u>114</u>	<u>4.08</u>	<u>403</u>	<u>100</u>	<u>31.23</u>
<u>1200</u>	<u>0.60</u>	<u>4.20</u>	<u>16.55</u>	<u>0.424</u>	<u>15.9</u>	<u>3.30</u>	<u>420</u>	<u>100</u>	<u>31.23</u>
<u>1210</u>	<u>0.85</u>	<u>4.19</u>	<u>16.46</u>	<u>0.426</u>	<u>8.1</u>	<u>3.20</u>	<u>428</u>	<u>100</u>	<u>31.23</u>
<u>1220</u>	<u>1.1</u>	<u>4.18</u>	<u>16.39</u>	<u>0.427</u>	<u>4.2</u>	<u>2.99</u>	<u>433</u>	<u>100</u>	<u>31.23</u>
<u>1225</u>	<u>1.225</u>	<u>4.18</u>	<u>16.30</u>	<u>0.427</u>	<u>2.4</u>	<u>2.77</u>	<u>437</u>	<u>100</u>	<u>31.23</u>
<u>1230</u>	<u>1.35</u>	<u>4.18</u>	<u>16.28</u>	<u>0.426</u>	<u>1.9</u>	<u>2.92</u>	<u>438</u>	<u>100</u>	<u>31.23</u>
<u>1235</u>	<u>1.475</u>	<u>4.18</u>	<u>16.26</u>	<u>0.426</u>	<u>1.4</u>	<u>2.65</u>	<u>439</u>	<u>100</u>	<u>31.20</u>
<u>1240</u>	<u>1.6</u>	<u>4.18</u>	<u>16.23</u>	<u>0.425</u>	<u>0.9</u>	<u>2.47</u>	<u>440</u>	<u>100</u>	<u>31.20</u>
<u>1245</u>	<u>1.725</u>	<u>4.18</u>	<u>16.19</u>	<u>0.425</u>	<u>0.7</u>	<u>2.48</u>	<u>442</u>	<u>100</u>	<u>31.20</u>
<u>1250</u>	<u>1.85</u>	<u>4.18</u>	<u>16.17</u>	<u>0.425</u>	<u>0.5</u>	<u>2.41</u>	<u>443</u>	<u>100</u>	<u>31.20</u>
<u>1252</u>	<u>sample</u>	<u>Time</u>							

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	<u>12</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs]

GENERAL INFORMATION

WEATHER: Overcast, Temp 65°F

SHIPPED VIA: FedEX or lab courier

SHIPPED TO: AES -Atlanta, GA

SAMPLER: Daniel Howard OBSERVER: _____

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

GROUNDWATER FIELD SAMPLING REPORT

PROJECT NO: 6122-08-0154

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

WELL ID: TW-12

DEPTH TO PRODUCT: NA

DATE: 11/7/18

PURGE METHOD: Low Flow/Low Stress :

TIME: 1512

PURGE EQUIPMENT (CIRCLE ONE)

GRUNDFOS **BLADDER** PERISTALTIC

SAMPLE METHOD: Pump per SESDPROC 301-R4

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____

DEPTH TO WATER: 34.03

DEPTH TO PUMP INTAKE OR TUBING INTAKE (ft btoc)
42.5

(ft btoc)

TOTAL DEPTH: 45.15

(ft btoc)

Arrived at: 1340

PURGE VOLUME: 11.2 x 0.04 = 0.44 x 3

WELL DIAMETER (inches): (circle one)

Initial PID = _____

(gals) = 1.32 gal

2-inch or **1-inch**

Purging 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: <u>1415</u>	<u>0.1</u>	<u>5.40</u>	<u>22.65</u>	<u>0.207</u>	<u>118</u>	<u>2.56</u>	<u>131</u>	<u>100 ()</u>	<u>35.02</u>
<u>1435</u>	<u>0.5</u>	<u>5.51</u>	<u>19.18</u>	<u>0.216</u>	<u>53.2</u>	<u>3.29</u>	<u>1.0</u>	<u>100</u>	<u>35.47</u>
<u>1445</u>	<u>0.75</u>	<u>5.53</u>	<u>18.47</u>	<u>0.215</u>	<u>41.6</u>	<u>3.81</u>	<u>-2</u>	<u>100</u>	<u>35.55</u>
<u>1455</u>	<u>1.0</u>	<u>5.51</u>	<u>18.48</u>	<u>0.220</u>	<u>40.6</u>	<u>3.67</u>	<u>-2</u>	<u>100</u>	<u>35.62</u>
<u>1500</u>	<u>1.125</u>	<u>5.49</u>	<u>18.24</u>	<u>0.223</u>	<u>38.4</u>	<u>3.61</u>	<u>-3</u>	<u>100</u>	<u>35.63</u>
<u>1505</u>	<u>1.25</u>	<u>5.48</u>	<u>18.00</u>	<u>0.225</u>	<u>31.5</u>	<u>3.63</u>	<u>-1</u>	<u>100</u>	<u>35.63</u>
<u>1510</u>	<u>1.375</u>	<u>5.45</u>	<u>17.80</u>	<u>0.228</u>	<u>30.3</u>	<u>3.68</u>	<u>-1</u>	<u>100</u>	<u>35.66</u>

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	<u>2</u>	HCL	8260	Site-Specific VOCs [See Sampling Scope of Work to confirm if well sampled for VOCs] <u>No VOC</u>

GENERAL INFORMATION	
WEATHER:	<u>Overcast, Chance of rain, Temp 74°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
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: 6122-08-0164

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-5 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1:30:5

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1:30:0

PURGE VOLUME: NA

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: <u>1:30:3</u>	<u>—</u>	<u>7.31</u>	<u>13.20</u>	<u>8.477</u>	<u>7.9</u>	<u>7.04</u>	<u>160</u>	<u>— ()</u>	

COMMENTS: _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	<u>Clear, Temp 60°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
OBSERVER:	<u>Blake Greeson</u>

[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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-10 DEPTH TO PRODUCT: _____ DATE: 11/19/18
 PURGE METHOD: NA TIME: 1242
 SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER GRAB (x) COMPOSITE ()
 DUP./REP. OF: _____ DEPTH TO WATER: _____
 TOTAL DEPTH: _____
 Arrived at: 1232 PURGE VOLUME: NA
 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: <u>1239</u>	<u>-</u>	<u>7.40</u>	<u>12.14</u>	<u>0.472</u>	<u>7.0</u>	<u>7.87</u>	<u>190</u>	<u>-</u> ()	

COMMENTS: _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	<u>Clear, Temp 58°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Daniel Howard</u>
OBSERVER:	<u>Blake Graeson</u>

[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: 6122-08-0164

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-11 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1218

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: DUP-5 DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1209 PURGE VOLUME: NA

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: <u>1216</u>	<u>---</u>	<u>7.18</u>	<u>12.27</u>	<u>0.513</u>	<u>3.9</u>	<u>7.94</u>	<u>206</u>	<u>---</u>	<u>---</u>

COMMENTS: DUP-5 (Time 1200)

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	<u>Clear, Temp 58°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u> OBSERVER: <u>Blake Greenon</u>

[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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-14 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1108

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1101

PURGE VOLUME: NA

Initial PID = _____

Bailing PID = _____

TIME	VOL. PURGED (gal)	pH	TEMPERATURE (°C)	SPEC. COND. (mS/cm)	TURB. (NTU)	DO	ORP	Pump Rate ml/mln. (& pump setting)	New Water Level
Initial: <u>1105</u>	<u>---</u>	<u>7.38</u>	<u>11.52</u>	<u>0.519</u>	<u>7.9</u>	<u>8.29</u>	<u>193</u>	<u>---</u>	<u>---</u>

COMMENTS: _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	<u>Clear & Cool, Temp 50°F</u>
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	<u>Daniel Howard</u>
OBSERVER:	<u>Blake Gresson</u>

[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

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-15 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1054

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1048

PURGE VOLUME: NA

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: 1051		7.40	11.29	0.525	6.9	8.79	194	()	
COMMENTS:									

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	Clear + cool, Temp
SHIPPED VIA:	FedEX or lab courier
SHIPPED TO:	AES -Atlanta, GA
SAMPLER:	Daniel Howard
OBSERVER:	Blake Green

[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: 6122-08-0164

Wood Environment & Infrastructure Solutions, Inc
1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2010-17 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1040

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1028

PURGE VOLUME: NA

Initial PID = _____

Balloing 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: <u>1038</u>	<u>---</u>	<u>7.24</u>	<u>11.18</u>	<u>0.530</u>	<u>11.8</u>	<u>8.21</u>	<u>206</u>	<u>---</u>	<u>---</u>

COMMENTS: _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
WEATHER:	<u>Clear & cool, Temp 45°F</u>
SHIPPED VIA:	<u>FedEX or lab courier</u>
SHIPPED TO:	<u>AES -Atlanta, GA</u>
SAMPLER:	<u>Daniel Howard</u> OBSERVER: <u>Blake Greeson</u>

[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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2014-20 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 1145

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 1140

PURGE VOLUME: NA

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: <u>11</u>	<u>---</u>	<u>6.79</u>	<u>14.86</u>	<u>0.665</u>	<u>9.7</u>	<u>5.95</u>	<u>212</u>	<u>---</u>	<u>---</u>

COMMENTS:

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION

WEATHER: Clear, Temp 55°F

SHIPPED VIA: FedEX or lab courier

SHIPPED TO: AES -Atlanta, GA

SAMPLER: Daniel Howard OBSERVER: Blake Greason

[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

Wood Environment & Infrastructure Solutions, Inc
 1075 BIG SHANTY ROAD SUITE 100 KENNESAW GA 30144
 PHONE: (770) 421-3400 / FAX: (770) 421-3486

LOCATION ID: SW-2014-21 DEPTH TO PRODUCT: _____

DATE: 11/19/18

PURGE METHOD: NA

TIME: 12:05

SAMPLE METHOD: SESDPROC 201-R3 SURFACE WATER

GRAB (x) COMPOSITE ()

DUP./REP. OF: _____ DEPTH TO WATER: _____

TOTAL DEPTH: _____

Arrived at: 11:55

PURGE VOLUME: NA

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: <u>11:57</u>	<u>—</u>	<u>6.61</u>	<u>15.46</u>	<u>0.681</u>	<u>10.6</u>	<u>4.52</u>	<u>223</u>	<u>— ()</u>	<u>—</u>

COMMENTS: _____

CONTAINER SIZE/TYPE	NO.	PRESERVATIVE	ANALYTICAL METHOD	ANALYSIS
500 mL PL	1	none	6020	Metals: DISSOLVED Arsenic Lead Copper Zinc
1 L GL Amber	2	none	8081A	Total organochlorine Pesticides
500 mL PL	1	none	9056	Nitrate and Sulfate

GENERAL INFORMATION	
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