6th SEMI-ANNUAL PROGRESS REPORT VOLUNTARY REMEDIATION PROGRAM

32.91-ACRE CSXT PARCEL
HUTCHINSON ISLAND
SAVANNAH, CHATHAM COUNTY, GEORGIA
HSI SITE NO. 10101

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January 27, 2016

CSX-RPI Project No. 9415575
Amec Foster Wheeler Project No. 6-4300-5246

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January 27, 2016

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CSX-RPI Project No. 9415575

Subject: **6th VRP Semi-Annual Progress Report**
32.91-ACRE CSXT PARCEL
Hutchinson Island
Savannah, Chatham County, Georgia
HSI Site No. 10101
Amec Foster Wheeler Project No. 6-4300-5246

Dear Mr. Williams:

On behalf of CSX Real Property, Inc. (CSX-RPI), Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler) respectfully submits this Semi-Annual Progress Report as required under the Georgia Voluntary Remediation Program to the Georgia Department of Natural Resources Environmental Protection Division (EPD). This report is intended for the use of CSX-RPI and for regulatory submittal, subject to the contractual terms agreed to for this project. Use of this report for purposes beyond those reasonably intended by CSX-RPI and Amec Foster Wheeler will be at the sole risk of the user.

If you have any questions and/or comments regarding the material presented in this report, please contact Chuck Ferry or Steve Foley at (404) 873-4761 or by email at chuck.ferry@amecfw.com or steve.foley@amecfw.com. Please send all official correspondence to Mr. Samuel Ross, CSX-RPI, 6737 Southpoint Drive South, Jacksonville, Florida, 32202, with a copy to Amec Foster Wheeler in Atlanta, Georgia.

Sincerely,

AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC.

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1.0 PROJECT SUMMARY

Activities described herein were conducted as part of the 5th semi-annual monitoring period and constitute the 6th Semi-Annual VRP Progress Report.

1.1 SITE DESCRIPTION AND HISTORIC USE

The qualifying property (subject property or CSXT Parcel) is comprised of a 32.91-acre parcel located on Hutchinson Island in Savannah, Georgia (see Figure 1). The subject property is owned by CSX-Real Property, Inc. (CSX-RPI), occupies Chatham County Tax Parcel 1-0436-01-017 and currently consists of vacant land. The subject property is a former bulk petroleum/chemical storage facility located on the southern side of Hutchinson Island, directly across the Savannah River from downtown Savannah, Georgia. The CSXT Parcel is abutted on the north and west sides by a 45-acre property owned by the Savannah Economic Development Authority (SEDA). Hutchinson Island Ventures, LLC and Low Country Land, LLC own parcels along the eastern subject property boundary. Properties along the southern boundary include the Georgia Department of Transportation, and Savannah Marine Services. The Savannah River also borders the subject property on its southeast corner. Spartan Hutchinson Island Investments, LLC owns a parcel adjacent to the west (refer to Figure 2).

The subject property is currently relatively flat with vegetation consisting mostly of tall grasses and scrub brush. The subject property was previously occupied by a bulk petroleum and chemical storage facility between approximately 1920 and 1992 that included 24 above ground storage tanks (ASTs) ranging in volume from 84,000 to 2.3 million gallons. Property improvements were demolished in the 1990s and the subject property has remained vacant and undeveloped since that time.

1.2 HISTORIC SITE REMEDIATION

CSX-RPI has engaged in significant soil and groundwater remediation at the site to address soils impacted with petroleum constituents and metals as described in previous submittals to the Georgia Environmental Protection Division (EPD) and has successfully completed implementation of the EPD-approved Modified Corrective Action Plan (MCAP) for impacted soils on its property. The subject property underwent groundwater remediation which began in 2008 and was terminated in 2011 prior to submittal of the application for entry of the property into the Voluntary Remediation Program (VRP).

1.3 REGULATORY HISTORY

A number of previous environmental assessments have been conducted at the subject property by Amec Environment & Infrastructure, Inc. (predecessor to Amec Foster Wheeler), Applied Engineering and Science, Inc. (AES), Blasland, Blouck and Lee (BBL), Wapora, Westinghouse and Kemron between 1988 and 2011. Based on the findings of the early assessments, a release notification was submitted to the Hazardous Site Response Program documenting soil and groundwater conditions on the subject property, which resulted in the property's listing on the Hazardous Site Inventory (HSI) in July 1995 (HSI Site No. 10101). An adjacent parcel (Parcel No. 2-0436-01-026) owned by the SEDA, designated as SEDA Parcel B, is also impacted and was sub-listed as part of the HSI site (the "site") in July 1997.

On June 7, 2012, CSX-RPI submitted an application to the VRP. The subject qualifying property was accepted into the VRP in January 2013.

1.4 SUMMARY OF WORK PERFORMED SINCE VRP ACCEPTANCE

1.4.1 Groundwater Sampling and Analyses

A Sampling and Analysis Plan (SAP) was submitted to EPD on October 18, 2013 which outlined a program of ongoing groundwater monitoring to be conducted under the VRP. The prior water monitoring events (semi-annual monitoring events one through four) included the testing of groundwater from a total of 27 monitoring wells and four surface water sampling locations.

The primary constituent of concern (COC) in groundwater is ammonia, although low levels of benzene, naphthalene, arsenic and lead are present in very localized areas as well.

1.4.2 Ecological Risk Assessment

A Screening-Level Ecological Risk Assessment (SLERA) was prepared for the site and submitted in conjunction with the 2nd Semi-Annual Progress Report. Both freshwater and marine ecological screening values (ESVs) were considered in the SLERA due to the brackish nature of the surface water in the canal.

Based on a comparison to surface water ESVs, no COCs were identified in surface water. Therefore, surface water in the SEDA-property drainage canal is not anticipated to pose unacceptable ecological risk to aquatic receptors. Similarly, because sediment concentrations were less than sediment toxicity benchmarks, exposure within the drainage canal is unlikely to pose significant adverse effects for benthic macroinvertebrates or other aquatic life. The results

of the SLERA indicated that no additional ecological risk assessment of the drainage canal is necessary for this property.

1.4.3 Fate and Transport Modeling

The results of groundwater fate and transport modeling has indicated that the migration of ammonia in either the northerly or southerly directions will not result in exceedences of the risk reduction standards (RRS) in the foreseeable future at the northern hypothetical point of exposure (POE) located 1,000 feet to the north or at the southern hypothetical POE located at the Savannah River boundary.

1.5 SUMMARY OF ADJACENT PROPERTY CONCERNS

Based on the groundwater monitoring results obtained to date, the parcel located adjacent to the CSXT Parcel to the west has also been impacted with ammonia in groundwater. This property is owned by Spartan Hutchinson Island Investments, LLC (SHII). As summarized in our letter dated January 14, 2015, CSX-RPI began discussions with SHII to include the SHII parcel as an additional qualifying property for the subject Voluntary Remediation Program site. Ammonia has not been identified above its media target concentration on other off-site properties.

The adjacent SEDA Parcel B, located immediately north of the site, was recently delisted from the HSI, primarily based on data obtained from wells installed and monitored by CSX-RPI on the SEDA property which consistently illustrated groundwater impacts were below applicable remediation standards. The delisting letter was issued by EPD on August 18, 2015. Therefore, only the CSXT Parcel remains on the HSI.

2.0 PERIOD ASSESSMENT ACTIVITIES

The additional assessment activities completed during this semi-annual period included a groundwater monitoring event using 17 existing wells (11 on-site and 6 off-site). The scope of this monitoring event was reduced from previous events based on EPD's approval of the reduction in scope in October 2015. The groundwater monitoring plan was modified by reducing the monitoring well network by 10 wells (from 27 to 17) and eliminating the surface water sampling and testing. The majority of the wells eliminated, as well as the surface water sampling points, were located on the adjacent SEDA Parcel which was recently delisted from the HSI. The remainder were located on CSXT property, well away from areas of significant groundwater impact. These sampling points had consistently demonstrated compliance with applicable remediation standards for both groundwater and surface water.

2.1 WATER TABLE MEASUREMENTS

Prior to beginning the well purging and sampling, water levels in existing monitoring wells on site were gauged to measure the depth to water from the top of the well casing. This information is summarized along with well construction data in Table 6 and was used to prepare the potentiometric surface map for the site (Figure 4). Table 7 presents a summary of water table measurements, collected during previous VRP monitoring events conducted following the shutdown of the remediation system. Comparison of previous measurements with those illustrated on Figure 4 indicate minor variations to the potentiometric surface relative to recent events. Groundwater flow in the northern portion of the site appears to be in a northwesterly direction toward the drainage canal while groundwater flow in central and southern portion of the site appears to be in a southeasterly direction toward the Savannah River.

2.2 GROUNDWATER SAMPLING

Well purging, groundwater sampling and other field procedures were conducted in accordance with the SAP. A total of 17 wells were sampled during this sampling event, including: MW-3R, TMW-1, TMW-4R, PDMW-8R, PDMW-10R, PDMW-13P, PDMW-19P, PDMW-23R, PDMW-26T, PDMW-32R, PDMW-33R2, PDMW-45R, EW-1, PMDW-46, PDMW-47, PDMW-48, and PDMW-53.

Prior to sampling, each well was purged to remove stagnant water and allow representative formation water to enter the well. The wells were purged using a peristaltic pump and Teflon lined tubing utilizing the "Tubing in Screened Interval" Method described in the Region 4 US

Environmental Protection Agency (EPA) SESD Groundwater Sampling Operating Procedure, dated March 6, 2013 (SESDPROC-301-R-3). Water quality parameters were measured during well purging and are summarized on the groundwater sampling logs provided in Appendix B.

Well purging continued until the water quality parameters stabilized for a minimum of three consecutive readings, indicating representative formation water was being withdrawn. A maximum turbidity of 10 NTU was set as the goal, although in general, significantly lower turbidity values were obtained. In three instances (MW-3R, PDMW-13P and EW-1), the goal of 10 NTU could not be obtained and samples with turbidity greater than 10 NTU were collected. Each of these samples was analyzed for metals, which could potentially be adversely influenced by suspended sediment.

Nickel and zinc were detected at concentrations of 0.06 and 0.17 milligrams per liter (mg/L) in the sample collected from monitoring well EW-1, respectively. Lead and zinc were detected at concentrations of 0.01 and 0.035 mg/L, respectively in MW-3R. Lead was detected at a concentration of 0.011 mg/L in PDMW-13P. All of the metals results from these three wells were below the applicable comparison standards. Comparison of ammonia results between recent sampling events from these wells did not show a consistent correlation between turbidity and ammonia concentrations. These results indicate that the elevated turbidity values have not had a significant effect on the data obtained from these wells.

Samples were collected immediately following purging and placed in containers provided by the laboratory, packed on ice and maintained under chain-of-custody control from the time they were collected until they were released to the laboratory. Quality assurance/quality control (QA/QC) samples, including duplicate samples, matrix spike duplicates, field rinse blanks and trip blanks were also collected for laboratory analysis.

2.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater samples collected from the 17 wells were analyzed for ammonia using EPA Method 350.1 and nitrate and nitrite using EPA Method 353.2. Analysis of other constituents was conducted on various wells in accordance with the approved Sampling and Analysis Plan (SAP), including: benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8260B, polynuclear aromatic hydrocarbons (PAHs) using EPA Method 8270D and the total arsenic, chromium, lead, nickel and zinc using EPA Method 6010C. The samples collected from the off-site wells in November 2015 were only analyzed for ammonia, nitrate and nitrite, in accordance

with the terms of the negotiated Access Agreements. Analytical results are summarized on Tables 1-3 and Figure 2. Table 1 contains the results of the current sampling event, Table 2 summarizes data from the last four sampling events, and Table 3 includes all historical groundwater testing data. Laboratory analytical reports are provided in Appendix A. Trend graphs depicting concentrations of the various COCs over time are included in Appendix D. Isoconcentration contours for ammonia are shown on Figure 3 and for COCs other than ammonia in Appendix E.

Ammonia

Based upon historic data collected at the site, the primary COC remaining in the groundwater beneath the property is ammonia, which was detected in each of the wells sampled during the most recent monitoring event. The following observations are provided based upon the most current ammonia concentration data:

1. Ammonia was detected at concentrations above the established site-specific background concentration of 15 mg/L in six of the 17 wells sampled, including: EW-1, TMW-1, PDMW-8R, PDMW-26T, PDMW-47 and PDMW-48. These results were generally consistent with the results obtained in May 2015, except that PDMW-48 was above background, whereas in the previous sampling event it was below. The PDMW-48 result, however, was consistent with both of the 2014 testing results.
2. Ammonia was detected at concentrations exceeding the risk reduction standard (RRS) of 30 mg/L in samples collected from five of the above six monitoring wells EW-1, TMW-1, PDMW-8R, PDMW-26T, and PDMW-47. Again these results were consistent with the results of the previous sampling event.
3. The November 2015 analytical results for those six wells above background show a decrease in ammonia concentrations in wells EW-1, PDMW-8R and TMW-1 when compared to the results of the May 2015 sampling event.
4. The November 2015 ammonia concentrations for wells PDMW-26T (600 mg/L) and PDMW-48 (28 mg/L) were higher when compared to May 2015 analytical results, but were generally consistent with recent historical data for these wells. The PDMW-47 result remained unchanged from May 2015.

5. Ammonia concentrations for the remaining 11 of 17 wells sampled in May 2015 were generally consistent with recent historical data for these wells and all were below the background concentration.

6. The concentrations of ammonia in TMW-1 and EW-1, the wells which have historically exhibited the highest ammonia impacts, remained elevated relative to the rest of the site. The highest ammonia concentration observed during the most recent sampling event was in TMW-1 at 3,600 mg/L. The ammonia concentration at TMW-1 has exhibited the following trends based upon its historic data:

    a. Decreased from the previous sampling event in May 2015 (4,300 mg/L) to 3,600 mg/L during the November 2015 sampling event.

    b. Decreased from the maximum concentration (18,000 mg/L) in 2000.

7. Monitoring well EW-1 is located within a separate area from TMW-1 and has historically exhibited ammonia concentrations which are substantially lower than in TMW-1. During the June 2014 monitoring event, EW-1 exhibited its highest concentration of ammonia to date (1,100 mg/L) and the assumption was made at that time that the elevated concentration was within a normal range of fluctuation. Subsequent analytical results for EW-1 have shown a steady decrease in the ammonia concentration from the high of 1,100 mg/L to 270 mg/L in November 2015.

8. PDMW-26T, located in the vicinity of TMW-1, exhibited an ammonia concentration of 600 mg/L, which is higher than the May 2015 result (550 mg/L), but similar to historical results for this well which generally range from approximately 500 to 700 mg/L.

9. The ammonia concentration in PDMW-8R decreased from 64 mg/L detected in May 2015 to 60 mg/L in the most recent sampling event. This concentration is generally consistent with recent historical results.

10. PDMW-47 (located west of the CSXT Parcel) exhibited an ammonia concentration of 39 mg/L, equal to that observed in May 2015.

11. PDMW-53, located in the area west of PDMW-47, exhibited an ammonia concentration of 3.6 mg/L, an increase from the 1.6 mg/L detected during the May 2015 sampling event, but still well below background.

12. PDMW-48 exhibited an ammonia concentration of 28 mg/L, an increase from 8.5 mg/L detected in May 2015, although consistent with previous concentrations of 22 and 25 mg/L detected during the 2014 sampling events. The ammonia concentration in PDMW-48

remains over two orders of magnitude below the concentrations of TMW-1, located immediately upgradient.

13. The remaining 11 of 17 wells that were sampled exhibited ammonia concentrations below the site-specific background concentration of 15 mg/L. Some minor fluctuations were noted among these samples compared with previous data, but the current data were generally consistent with previous results.

An ammonia isoconcentration map for this sampling event is attached as Figure 3 which illustrates current results along with the RRS/delineation standard of 30 mg/L.

Nitrate

Nitrate was detected at concentrations above the laboratory reporting limit in four of the 17 wells sampled (TMW-1, MW-3R, PDMW-32R and PDMW-48) in November 2015. Of these, only TMW-1, with a nitrate concentration of 250 mg/L (down from 290 mg/L in May 2015), exceeded the maximum contaminant level (MCL) of 10 mg/L for drinking water established by the USEPA. These results are generally consistent with the previous analytical results.

Nitrite

Nitrite was detected at concentrations above the laboratory reporting limit in four of the 17 wells sampled (MW-3R, PDMW-48, PDMW-32R and PDMW-46) in November 2015. None of the detected nitrate concentrations exceeded the maximum contaminant level goal (MCLG) of 1 mg/L for drinking water established by the USEPA.

PAHs

PAH sampling was limited to one monitoring well (TMW-1) for the November 2015 monitoring event. Naphthalene was detected at a concentration of 63 µg/L in the sample collected from TMW-1, which exceeds the RRS of 20 µg/L. This naphthalene concentration is consistent with historical results for TMW-1. No other HSRA-regulated PAHs were detected above laboratory reporting limits in the sample collected from TMW-1.

VOCs

VOCs sampling was also limited to monitoring well TMW-1 for the November 2015 monitoring event. Benzene was detected at a concentration of 52 µg/L, which exceeds the RRS of 31.2 µg/L. In addition, total xylenes were detected at a concentration of 220 µg/L, which is well below the RRS of 10,000 µg/L. The detections of benzene and total xylenes are somewhat higher than the concentrations detected during the May 2015 sampling event; however, they are generally

consistent with or lower than recent historical results for TMW-1. No other VOCs were detected above laboratory reporting limits in the sample collected from TMW-1.

Metals

Groundwater samples were collected for total metals analysis from 15 monitoring wells during the November 2015 monitoring event. Total metals were detected in five of the wells, including: EW-1, MW-3R, TMW-1, PDMW-26T and PDMW-32R. The following observations are provided based upon an evaluation of recent and historical analytical results for total metals:

1. Total metals concentrations detected in groundwater samples were typically below site-specific background concentrations and applicable RRS with the exceptions noted below.
2. Total lead was detected at or just above the laboratory reporting limit of 10 µg/L in three samples (MW-3R, PDMW-13P and PDMW-47). None of these three lead detections exceeded the RRS of 15 µg/L.
3. Total arsenic was detected only in monitoring well TMW-1 at a concentration of 150 µg/L, which exceeds the RRS of 18 µg/L. This result is generally consistent with recent historical results for well TMW-1.
4. Total arsenic remains delineated in the northwest portion of the CSXT property, as it was not detected in the wells surrounding TMW-1 (see Figure E-4 in Appendix E). Historical analytical results for nearby wells PDMW-1T, PDMW-2T, PDMW-35P and PDMW-48 also indicate that total arsenic exceedences are limited to the northwest corner of the CSXT property.
5. Total chromium was detected in monitoring well TMW-1 at a concentration of 32 µg/L, which is above the background level of 13 µg/L but below the RRS of 100 µg/L. This detection of total chromium is generally consistent with historical analytical results for well TMW-1. Recent historical analytical results for nearby wells MW-3R, PDMW-1T, PDMW-26T, PDMW-29D, PDMW-35P, and PDMW-48 indicate that total chromium detections above background are generally limited to well TMW-1 in the northwest corner of the CSXT property.
6. Total zinc was detected in four wells (EW-1, TMW-1, MW-3R and PDMW-32R) at concentrations ranging from 0.035 to 0.17 mg/L. These concentrations are well below the site-specific background concentration for zinc of 0.96 mg/L.

7. Total nickel was detected in one well (EW-1) at a concentration of 0.06 mg/L. This concentration is below the background concentration for nickel of 0.13 mg/L.

2.4 SURFACE WATER SAMPLING AND ANALYTICAL RESULTS

Historical surface water testing data collected between 1997 and 2004 are summarized in Table 4. Previous surface water testing indicated that the surface water within the canal was not being impacted by constituents of concern above applicable environmental screening levels for surface water and the surface water testing was discontinued following the delisting of the SEDA property. The most recent surface water testing data collected under the VRP program between December 2013 and May 2015 are summarized in Table 5.

2.5 VERTICAL DELINEATION

As detailed in the 5th Semi-Annual Progress Report, vertical delineation of COCs has been established utilizing historical groundwater sampling data, the chemical nature of the COCs, and hydraulic gradients from monitoring wells installed within the source area. As a result, the deep well PDMW-29D and the intermediate depth well PDMW-35P were not sampled during the current monitoring period.

3.0 CONTAMINANT FATE AND TRANSPORT MODELING

Amec Foster Wheeler updated the BIOCHLOR fate and transport model of the ammonia in groundwater on site. Refer to Appendix C for model output sheets.

BIOCHLOR utilizes a combination of site specific data and literature values to determine the various physical properties of the plume and the migration potential of dissolved constituents. The model was developed to predict the migration pattern of a contaminant plume where no engineering controls have been implemented and monitored natural attenuation (MNA) is the groundwater remedial option.

3.1 NITRIFICATION

Ammonia (NH_3) within the subsurface predominately exists in an ionized (protonated) state of ammonium (NH_4^+) under the pH and temperature conditions observed at the site (pH typically between 6 and 7 and groundwater temperatures between approximately 18 and 24 degrees C). These conditions are also optimal for oxidation (nitrification) of ammonium, the primary mechanism for ammonium degradation. Ammonium initially oxidizes to nitrite (NO_2^-) which is catalyzed by Nitrosomonas bacteria. Nitrite is then oxidized by Nitrobacter bacteria resulting in the formation of nitrate (NO_3^+). Nitrate is generally stable in the subsurface environment under aerobic conditions and can persist for long periods of time if it is not removed via plant uptake or discharged to surface water bodies. The biodegradation of ammonium and nitrite are typically maximized under aerobic conditions and may be halted under anaerobic conditions. However, anaerobic oxidation of ammonium (anammox) and its byproducts can occur under anoxic conditions via biological denitrification. This process is facilitated by the absence of oxygen and the presence of organic carbon, and reduced sulfur or iron (Buss, S.R., Herbert, A. W., Morgan, P. and Thornton, S.F, 2003). At EPD's request, nitrite analysis has been included in the suite of testing parameters during the last two sampling events to provide additional data regarding ammonia degradation.

3.2 Dissolved Oxygen

Review of well purging records indicates concentrations of dissolved oxygen (DO) in the shallow groundwater varies considerably both across the site and seasonally, with the higher DO concentrations observed during the summer sampling events. During the current sampling event, most wells contained low concentrations DO at the time of sampling. There does appear to be some correlation between DO and nitrite concentrations. Typically, nitrite was not detected in

samples exhibiting low DO concentrations (<1.0 mg/L) and the highest nitrite concentrations were detected within wells located in tidal marsh areas. The daily influx of surface water may serve to oxygenate the shallow groundwater in the marsh area. Such conditions would enhance the biodegradation of ammonium within the marsh area. This relationship does not hold in all cases, however, as the highest nitrite concentrations were detected in two wells (PDMW-7P and PDMW-48) which also exhibited low DO. Both of these wells were located in marshy areas which indicates other factors, such as anammox may have locally influenced the formation of nitrite.

3.3 RETARDATION

Subsurface migration of ammonia can also be heavily influenced by retardation effects from aquifer materials. Specifically, the presence of even small amounts (0.1%) of clay can result in retardation factors of 2-3.5 due to cation exchange or adsorption effects. The retardation effects are most pronounced with mixed layer clays such as montmorillonite, which are not expected in this geologic setting. However, double layer clays such as illite and even single layer clays, such as kaolinite (which would be expected on site) will have a significant retardation effect. As noted in boring logs for site monitoring wells, the aquifer material believed responsible for the bulk of shallow groundwater migration consists primarily of fine to medium grained sand, but minor to moderate amounts of clay are also present throughout the site, particularly in the marshy areas; although the precise mineralogy of these clays has not been determined. The soils within the marshy areas were observed to contain significant amounts of clay generally throughout the depth of the wells in this area. Such conditions represent lower hydraulic conductivities which would be consistent with reduced migration of the ammonia plume across the marsh as is noted with the sharp drop off in observed ammonia concentrations between the apparent source area and any wells located within the marsh (MW-3R, PDMW-48, PDMW-49, PDMW-50, PDMW-51 and PDMW-52).

3.4 DEGRADATION

The presence of low concentrations of ammonia and nitrate in groundwater and the surface waters of the canal provide evidence that ammonia degradation is occurring on site. However, some of the nitrate previously detected in the surface water may be attributable to influx from the Savannah River as nitrate concentrations in groundwater were generally below detection limits except in those wells with the highest ammonia concentrations. As described in previous reports, significant variations in nitrate concentrations in surface water were noted between low tide and high tide which supports the conclusion that the Savannah River has a substantial influence on

nitrate concentrations in the surface water in the canal. Unlike the nitrate results, nitrite concentrations in surface water were generally higher in the low tide samples, indicating primary input from groundwater rather than surface water.

3.5 RELEASE HISTORY

The initial release of ammonia to groundwater was assumed to have occurred approximately 40 years ago. This date was selected as a reasonable starting date based on the use of the property for chemical storage (including liquid fertilizer) by Charter International Oil Company (Charter) beginning in 1973. The storage of ammonia likely ceased when Powell Duffryn took over the site in 1982, but definitely ceased by the early 1990s when Powell-Duffryn vacated the site and the on-site storage tanks were removed. As such, the release was modeled as emanating from a decaying source as all ongoing sources have long since been removed and the ammonia will undergo biotransformation to nitrite and then to nitrate.

3.6 DECAY CONSTANT

The ammonia decay constant was calculated by preparing a semi-log plot of ammonia concentration vs. time in TMW-1. The slope of the trend line provided the initial model input value. However, the value obtained appeared to be very conservative as it would result in predicted source area concentrations well in excess of what is currently observed. The decay constant valued may have been affected by the previous operation of the remediation system. Therefore, the decay constant was modified somewhat to more closely match observed conditions.

3.7 MODEL RESULTS

Due to the groundwater flow pattern, it was necessary to prepare two models. One model considers the ammonia fate and transport to the north-northwest toward the drainage canal and a second model considers the ammonia fate and transport to the southeast toward the Savannah River.

The northward trending model illustrates the migration of ammonia from the source area near TMW-1 toward the drainage canal. An ammonia concentration of 18,000 mg/L was established as an original source area concentration to adjust model input parameters and establish a decay rate that reasonably matches current field observations. This value represents the highest concentration of ammonia detected on site to date. We note that the exact location and size of the original source area or areas is not known. In addition, the heterogeneity of the aquifer materials (e.g., the hydraulic conductivity measured on site can vary by up to two orders of

magnitude) introduces a component of variability as well. For this reason, an average hydraulic conductivity of 7.8 x 10^{-4} cm/sec, was calculated from 2005 slug test results from TMW-1, TMW-3T and PDMW-22T in the northern portion of the site.

The highest measured ammonia concentration of 18,000 mg/L was utilized as the initial concentration and the model was run over a 70-year time span. The attached output sheets illustrate that after 40 years (i.e. now) the predicted ammonia concentrations generally correspond to those currently observed in TMW-1 and in the area to the north. The northerly plume is modeled between the assumed source area around TMW-1, and PDMW-48 and PDMW-49, the point of demonstration wells located immediately south of the canal. The May 2015 sample result for PDMW-49 was utilized in the current model as this was the most recent data available for this well.

Ammonia concentrations in groundwater predicted by the model were compared to the previously approved risk reduction standard of 30 mg/L. The model output continue to predict that 30 years into the future, ammonia concentrations will remain below the RRS of 30 mg/L at the canal and well below the RRS north of the canal.

The southward trending model run illustrates ammonia migration from the area around EW-1, which is the area of highest observed ammonia concentration located south of the assumed source area around TMW-1. An ammonia concentration of 1,100 mg/L was utilized as a starting concentration as this was the highest ammonia concentration recorded in this portion of the site. An average hydraulic conductivity of 3 x 10^{-3} cm/sec was utilized for the southern model. This value was calculated from slug test results obtained from PDMW-10T, PDMW-24T and PDMW-15T which are located in the southern portion of the site. The modeled flow path utilized EW-1 as the source area, and included MW-10R and PDMW-46P to the east-southeast, the direction of groundwater flow in this area as depicted on Figure 4, rather than a direct path to the river. We note that the exact flow path is difficult to determine in the area around EW-1 as it is located near the groundwater divide in the central portion of the site and slight variations in the water table configuration can alter the flow direction from EW-1. In order to provide a conservative model, a flow path generally toward the river was assumed. The model output continues to predict that the ammonia concentration reaching the river will remain well below the RRS into the foreseeable future.

Sensitivity analysis of the BIOCHLOR model input parameters was performed by increasing and decreasing their baseline values for the calibrated model. The results of the analysis are shown in Table A for monitoring well PMW-49 which is the point of demonstration well for the northern plume which represents the most significantly impacted groundwater at the site. This well is adjacent to the drainage canal and therefore is most representative of potential groundwater impacts on the surface water quality.

For modeling purposes, TMW-1 and EW-1 have been assumed to represent the source locations for the northern and southern plume migration, respectively; although, based on the previous testing from EW-1, this may not be the case. In the case of TMW-1, the highest historic concentrations was utilized as the initial ammonia concentration.

The model was developed by inputting a combination of field-measured parameters and literature values into the model which were then adjusted until the constituent distribution curves reasonably matched the groundwater conditions measured at the site as described in previous reports. Those same input parameters were then utilized in longer duration models to predict concentrations of ammonia over time.

As illustrated on the attached outputs from the BIOCHLOR model, the model predicts that after approximately 40 years (i.e. now), the ammonia concentrations modeled as emanating from the TMW-1 location is a close match to the conditions currently observed in downgradient wells, including previous results from those wells along the canal and in the marsh, which have been eliminated from the sampling program. Results from the point of demonstration well for the southern plume also provide a relatively close match to the conditions predicted for the southern plume. Modeled concentrations for both nitrate and nitrite, when compared with field conditions indicate that the biotransformation of ammonia to these degradation products is very slow and that the observed downgradient conditions appear to be related to migration with minimal biotransformation. With the exception of the source area well itself, TMW-1, no nitrate concentrations have been observed on site approaching its MCL.

The results of the groundwater fate and transport modeling continue to indicate that the migration of ammonia, nitrate and nitrite in either the northerly or southerly directions will not result in exceedences of the RRS in the foreseeable future either at the drainage canal or at the northern hypothetical point of exposure (POE) located 1,000 feet to the north or at the southern hypothetical POE located at the Savannah River boundary.

4.0 CONCLUSIONS

The following conclusions are drawn from the results of the recent assessment and monitoring activities. Please reference the appropriate sections in this report for a discussion of the specific data to support these conclusions.

1. The most recent data set continues to support the conclusion that ammonia is the remaining COC at the subject site.

2. Ammonia has been delineated horizontally and vertically to the established background concentration of 15 mg/L in two distinct plumes. One plume centered at TMW-1 exhibits a migration pattern toward the north-northwest and a second plume centered at EW-1 exhibits a migration pattern toward the southeast.

3. Based on an evaluation of the data collected during this sampling event compared to previous sampling events, overall groundwater quality at the site appears to be improving. The following was noted:

    a. Concentrations of lead remain below the detection limit in well EW-1 for the third consecutive sampling event.

    b. Lead in PDMW-13P was below the RRS for the second consecutive sampling event.

    c. Of the 17 wells tested for ammonia, 12 remained below the RRS and 11 remained at or below the background concentration.

    d. Of the five wells where ammonia exceeded the RRS, concentrations decreased in three (EW-1, PDMW-8R and TMW-1) and remained unchanged (and down from 2014 results) in one well (PDMW-47).

4. Groundwater testing for the ammonia breakdown products nitrite and nitrate identified these constituents in only three wells each. These constituents were previously detected more frequently in the northern plume area, particularly in wells located within or very near the tidal marsh areas; however, most wells in the marsh area are no longer sampled. The presence of these two compounds indicates that natural degradation of ammonia is occurring in the subsurface (particularly in the marsh), resulting in the continuing groundwater quality improvement.

5. Ammonia concentrations in the location of the area of highest impact (TMW-1) in the source area remain well below historically high levels. A northward trending fate and transport model that has been developed for the project illustrates the migration of ammonia from an assumed source area near TMW-1 toward the drainage canal. The model output predicts that 30 years

into the future, ammonia concentrations in groundwater will remain below the RRS of 30 mg/L at the canal and well below the RRS north of the canal.

6. A southward trending fate and transport model that has been developed for the project illustrates ammonia migration from the area around EW-1, which is the area of highest observed ammonia concentration located south of the assumed source area around TMW-1. The model output predicts that the ammonia concentration in groundwater reaching the river will remain well below the RRS for at least the next 30 years.

7. Modeling of nitrite and nitrate indicates that although degradation of ammonia into both nitrate and nitrite is apparent, it appears to occur at a slow rate. However, based on the observed distribution of nitrite and nitrate in the subsurface, the only exceedance of an MCL is observed in the source area well (TMW-1) and does not appear to have migrated a significant distance. There are no indications that either constituent will exceed applicable standards at the point of demonstration wells or will otherwise adversely affect downgradient receptors.

8. Additional HSRA-regulated constituents, including naphthalene, benzene, and total arsenic were detected above the RRS in the “source area well” TMW-1. While these constituents have been persistently detected at these concentrations for the past four consecutive sampling events they have remained stable or decreased in concentration, have been horizontally and vertically delineated and show no indications of significant lateral migration.

9. Analytical results indicated that concentrations of ammonia detected in surface water samples collected from the four sampling locations at high tide and low tide along the drainage canal during recent sampling events consistently remained below both the fresh water and marine environmental screening levels. Additionally, laboratory data for ammonia for monitoring wells associated with this drainage canal (PDMW-49 through PDMW-52) indicate the ammonia remains below the background concentration.

5.0 UPDATED MILESTONE SCHEDULE

The table below summarizes VRP progress with respect to the scheduled milestones.

Task Name & Description.	Scheduled	Status
Prepare response to comments letter to address comments in GAEPD's January 31, 2013 letter.	July 31, 2013	Completed
Prepare ground and surface water sampling and analysis plan (SAP) for submission to GAEPD.	September 31, 2013	Completed
Prepare second semi-annual progress report (SAPR) including: sampling selected on-site wells and surface water; perform preliminary ecological risk evaluation; negotiate access agreements with adjacent properties. Demonstrate complete horizontal delineation on the qualifying property.	January 31, 2014	Completed
Prepare third SAPR including: installation of additional wells, establishment of points of exposure, updated groundwater modeling.	July 31, 2014	Completed
Prepare fourth SAPR including: installation of additional well; horizontal groundwater delineation off CSX parcel; updated groundwater modeling. Must demonstrate complete horizontal delineation on all impacted properties.	January 31, 2015	Completed
Prepare fifth SAPR including: updated groundwater modeling. Must demonstrate complete horizontal and vertical delineation, finalize the remediation plan (including proposed site-specific cleanup standards, if necessary), and provide a preliminary cost estimate for implementation of remediation and associated continuing actions.	July 31, 2015	Completed
Prepare sixth SAPR including: updated groundwater modeling.	January 31, 2016	Completed
Prepare Compliance Status Report (CSR) to certify soil compliance and demonstrate acceptable risk of exposure for groundwater, surface water and ecological impacts.	July 31, 2016	Not started
Prepare proposed environmental covenant for the qualifying property, list of abutters with tax parcel numbers, mailing addresses, and title report.	July 31, 2016	Not started

6.0 NEXT SUBMITTAL

As required by EPD, semi-annual progress reports must be submitted to EPD every January 31st and July 31st throughout the duration of the project. The report for the seventh semi-annual period will be submitted by July 31, 2016 and will consist of a Compliance Status Report:

- Additional groundwater monitoring is not proposed during the seventh VRP semi-annual period. The five VRP sampling events have demonstrated that impacts outside of the source areas are limited in concentration to below applicable RRS and in most areas, site-specific background concentrations, as well.
- Groundwater impacts within the source areas have been demonstrated to be stable or decreasing in concentration over time and have been laterally and vertically delineated.
- As discussed in the 5th Semi-Annual Progress Report, long-term monitoring of the deep well PDMW-29D indicates that COCs in this well are below background and that vertical delineation of groundwater impacts has been satisfactorily demonstrated.
- The tidal marsh located adjacent to the CSXT property to the north has been shown to provide an effective barrier to the migration of ammonia and other COCs and appears to facilitate the degradation of ammonia.
- Laboratory data from monitoring wells along the drainage canal on SEDA property (PDMW-49, PDWM-50, PDMW-51 and PDMW-52) indicate that these four monitoring wells have exhibited no exceedances of applicable RRS or background concentrations. PDMW. During the December 2014 meeting with CSXT, EPD agreed SEDA will not be included as a qualifying property for this site and the SEDA property has been delisted from the HSI as of August 2015.
- Surface water testing was discontinued following the June 2015 sampling event because no exceedances of fresh water ecological screening values for COCs or other adverse ecological effects have been identified since testing under the VRP began in 2013. The 2014 SERLA concluded that no adverse ecological affects have been observed or are expected to be observed in the drainage ditch from the ammonia or other COCs; and no further action for surface water and surface sediments was necessary.

References:

Modified Corrective Action Plan, CSXT-Hutchinson Island, prepared by AMEC, dated June 6, 2009;

Response to Notice of Deficiency and Revised Compliance Status Report – Post Soil Corrective Action Report, prepared by AMEC, dated February 29, 2008;

Buss, S.R., Herbert, A.W., Morgan, P., & Thornton, S.F., Review of Ammonium Attenuation in Soil and Groundwater, National Groundwater and Contaminated Land Centre Report NC/02/49, dated July 2003;

Buss, S.R., Rivett, M.O., Morgan, P., & Bemment, C.D., Attenuation of Nitrate in the Subsurface Environment, Environment Agency Science Report SC030155/SR2, dated November 2005;

Bumb, A.C., McKee, C.R., Way, S.C., Drever, J.I and Halepaska, J.C., Ammonia and Nitrate Migration from the Vadose Zone to the Groundwater System; Containment, Recovery and Natural Restoration.

GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared in conjunction with others working under my direction.

Mr. Stephen R. Foley, P.G.
Georgia Registration No. 1057



TABLES

Table 1
Summary of Groundwater Analytical Results - November 2015
HSI Site #10101, Hutchinson Island, GA

				Location:	EW-1	MW-3R	PDMW-8R	PDMW-10R	PDMW-13P	PDMW-19P	PDMW-23R	PDMW-26T		PDMW-32R	PDMW-33R2	PDMW-45R	PDMW-46	PDMW-47	PDMW-48	PDMW-53	TMW-1		TMW-4R
				Sample Date:	11/12/2015	11/12/2015	11/12/2015	11/12/2015	11/11/2015	11/12/2015	11/11/2015	11/12/2015	11/12/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/11/2015	11/12/2015	11/12/2015	11/12/2015
				Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal
				Sample ID:	EW-1_11122015	MW-3R_11122015	PDMW-8R_11122015	PDMW-10R_11122015	PDMW-13P_11112015	PDMW-19P_11122015	PDMW-23R_11112015	DUP-01_11122015	PDMW-26T_11122015	PDMW-32R_11112015	PDMW-33R2_111112015	PDMW-45R_11112015	PDMW-46_11112015	PDMW-47_11112015	PDMW-48_11112015	PDMW-53_11112015	DUP-02_11122015	TMW-1_11122015	TMW-4R_11122015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	ACENAPHTHYLENE	1.4	1	510	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	ANTHRACENE	0.2	0.2	5100	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	CHRYSENE	0.2	0.2	65	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	FLUORANTHENE	0.5	1000	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	FLUORENE	0.5	1000	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	9.5 U	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	9.5 U	NA
	NAPHTHALENE	1	20	20	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***63***	***32***	NA
	PHENANTHRENE	0.22	0.2	510	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	PYRENE	0.5	1000	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.7 U	9.5 U	NA
	TOTAL PAHs	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	87	58	NA
VOCs	BENZENE	1	5	31.2	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***51***	***52***	NA
	ETHYLBENZENE	1	700	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
	TOLUENE	1	1000	1900	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA
	XYLENES (TOTAL)	2	10000	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220	220	NA
	TOTAL BTEX	- -	- -	- -	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	271	272	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/l	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	***0.12***	***0.15***	0.02 U
	CHROMIUM	0.013	0.1	- -	mg/l	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.023	0.029	NA
	LEAD	0.007	0.015	0.015	mg/l	0.01 U	***0.01***	0.01 U	0.01 U	***0.011***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	***0.01***	NA	NA	0.01 U	0.01 U	0.01 U
	NICKEL	0.13	0.1	2	mg/l	***0.06***	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	NA	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	NA
	ZINC	0.96	2	31	mg/l	***0.17***	***0.035***	NA	NA	0.02 U	NA	NA	NA	NA	***120***	NA	NA	NA	NA	NA	NA	***63***	***78***	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/l	***270***	1.7	***60***	7.9	2.7	4.9	2.8	***600***	***600***	1.3	15	0.8	1.1	***39***	28	3.6	***3400***	***3600 F1***	3.1
	NITRATE (AS N)	- -	10	- -	mg/l	0.05 U	0.056	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.17	0.05 U	0.05 U	0.05 U	0.05 U	0.11	0.05 U	230	250 F1	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	0.05 U	0.11	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.073	0.05 U	0.11	0.05 U	10 U	10 U	0.05 U

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking Water Regulations.

ND - No constituents detected above the laboratory minimum detection limit.

F1: Indicates MS or MSD recover was outside of specified limits.

U: Incidactes constituent was not detected above value shown.

Table 2
Summary of Last Four Rounds of Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	EW-1					MW-1				MW-2		MW-3R					MW-201			MW-202	MW-204	PDMW-7P			PDMW-8R				
					Sample Date:	6/4/2014	11/4/2014	5/20/2015	5/20/2015	11/12/2015	6/3/2014		11/3/2014	5/20/2015	11/4/2014	5/19/2015	6/5/2014	11/5/2014		5/19/2015	11/12/2015	6/4/2014	5/20/2015	5/20/2015	11/4/2014	11/5/2014	6/4/2014	11/4/2014	5/19/2015	6/3/2014		11/5/2014	5/20/2015	11/12/2015
					Sample Type:	Normal	Normal	Dup	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal
					Sample ID:	EW-01_06042014	EW-1_11042014	DUP-02_05202015	EW-01_05202015	EW-1_11122015	MW-01_06032014	DUP-01_06032014	MW-1_11032014	MW-1_05202015	MW-2_11042014	MW-2_05192015	MW-3R_06052014	MW-3R_11052014	DUP-2_11052014	MW-3R_05192015	MW-3R_11122015	MW-201_06042014	DUP-03_05202015	MW-201_05202015	MW-202_11042014	MW-204_11052014	PDMW-07P_06042014	PDMW-7P_11042014	PDMW-7P_05192015	PDMW-8R_06032014	DUP-02_06032014	PDMW-8R_11052014	PDMW-8R_05202015	PDMW-8R_11122015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
	ACENAPHTHENE	1	2000	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U*	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	10 U	NA	NA	NA	NA	9.5 U	9.6 U	NA	NA	NA	NA	10 U	NA	NA	NA	NA	10 U	NA	NA	NA	10 U	9.9 U	NA	NA	9.9 U	9.9 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	ND	ND	NA	NA	ND	ND	NA	NA	NA
	BENZENE	1	5	31.2	ug/L	1 U	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1	1000	1900	ug/L	1 U	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	NA	NA	NA	NA	2 U	2 U	NA	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA	NA	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	ND	ND	NA	NA	NA
	ARSENIC	0.018	0.018	0.018	mg/L	0.02 U	***0.02***	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	***0.029***	***0.028***	0.02 U	0.02 U	0.02 U
	CHROMIUM	0.013	0.1	- -	mg/L	0.012	0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	0.01 U	0.01 U	NA	NA	NA
Metals, Total	LEAD	0.007	0.015	0.015	mg/L	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	***0.039***	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	NICKEL	0.13	0.1	2	mg/L	0.1	0.1	0.044	0.044	0.06	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	ZINC	0.96	2	31	mg/L	0.55	0.47	0.19	0.19	0.17	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.089	0.035	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	NA	NA	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***1100***	***540***	***260***	***320 F1***	***270***	25	18	25	21	23	13	3.9	6.5	2.2	1.9	1.7	15	1.1	1.1	1	***340***	12	16	16	***62***	***63***	***94***	***64***	***60***
Miscellaneous	NITRATE (AS N)	- -	10	- -	mg/L	0.05 U	0.29	0.097	0.063	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.056	0.07	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	0.05 U	NA	0.17	NA	NA	NA	0.078	0.11	NA	0.05 U	0.05 U	NA	NA	NA	NA	0.11	NA	NA	NA	0.05	0.05 U
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

[grey box] Shaded cell indicates comparison standard used in data evaluation.

[yellow box] Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking Water Regulations.

ND - No constituents detected above the laboratory minimum detection limit.

F1: Indicates MS or MSD recovery is outside of specified limits

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UH: Indicates sample analyzed outside of specified hold time.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, PDMW-39R, PDMW-40R, PDMW-45R, and TMW-4R were installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32P, PDMW-33T, PDMW-39, PDMW-40, PDMW-45, and TMW-4 respectively.

12/7/2015

Table 2
Summary of Last Four Rounds of Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-10R				PDMW-13P				PDMW-19P				PDMW-23R			PDMW-23T	PDMW-24T	PDMW-26T						PDMW-29D			PDMW-30P		PDMW-30R
					Sample Date:	6/5/2014	11/5/2014	5/20/2015	11/12/2015	6/5/2014	11/5/2014	5/19/2015	11/11/2015	6/4/2014	11/3/2014	5/20/2015	11/12/2015	11/5/2014	5/19/2015	11/11/2015	6/4/2014	11/5/2014	6/5/2014	11/6/2014		5/21/2015	11/12/2015	11/12/2015	6/3/2014	11/6/2014	5/21/2015	11/3/2014	5/20/2015	6/3/2014
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-10R_06052014	PDMW-10R_11052014	PDMW-10R_05202015	PDMW-10R_11122015	PDMW-13P_06052014	PDMW-13P_11052014	PDMW-13P_05192015	PDMW-13P_11112015	PDMW-19P_06042014	PDMW-19P_11032014	PDMW-19P_05202015	PDMW-19P_11122015	PDMW-23R_11052014	PDMW-23R_05192015	PDMW-23R_11112015	PDMW-23R_06042014	PDMW-24T_11052014	PDMW-26T_06052014	PDMW-26T_11062014	DUP-03_11062014	PDMW-26T_05212015	DUP-01_11122015	PDMW-26T_11122015	PDMW-29D_06032014	PDMW-29D_11062014	PDMW-29D_05212015	PDMW-30P_11032014	PDMW-30P_05202015	PDMW-30R_06032014
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	9.8 U*	NA	NA	NA	9.7 U*	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U*	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	ANTHRACENE	0.2	0.2	5100	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	CHRYSENE	0.2	0.2	65	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	FLUORANTHENE	0.5	1000	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	FLUORENE	0.5	1000	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	NAPHTHALENE	1	20	20	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	PHENANTHRENE	0.22	0.2	510	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	PYRENE	0.5	1000	- -	ug/L	9.8 U	NA	NA	NA	9.7 U	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	10 U	NA	9.8 U	NA	NA	NA	NA	NA	9.7 U	NA	NA	NA	NA	9.8 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	5 U	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	NA	NA	NA	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	2 U	NA	2 U	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	***0.025***	0.02 U	0.02 U	***0.025***	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	***0.021***	***0.033***	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	NA	0.04 U	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	0.04 U
	ZINC	0.96	2	31	mg/L	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	0.02 U	NA	0.02 U	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	0.02 U
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	13	12	7.3	7.9	1.9	2	2.7	2.7	5.6	4.5	4.7	4.9	2.3	1.5	2.8	3.6	NA	***600***	***470***	***490***	***550***	***600***	***600***	11	10	11	2.2	2	1.6
	NITRATE (AS N)	- -	10	- -	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.21	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.11	NA	1.1	0.051	0.07	0.26	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U	0.05 U	NA	0.05 U	0.05 U	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	0.05 U	NA	0.05 U	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking \

ND - No constituents detected above the laboratory minimum detection limit.

F1: Indicates MS or MSD recovery is outside of specified limits

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UH: Indicates sample analyzed outside of specified hold time.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, PDM\
replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32P, PDMW-33T, P

Table 2
Summary of Last Four Rounds of Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-32R				PDMW-33R2				PDMW-40R	PDMW-45R				PDMW-46				PDMW-47				PDMW-48			
					Sample Date:	6/4/2014	11/6/2014	5/19/2015	11/11/2015	6/4/2014	11/4/2014	5/20/2015	11/11/2015	11/5/2014	6/3/2014	11/3/2014	5/20/2015	11/11/2015	6/4/2014	11/3/2014	5/20/2015	11/11/2015	6/4/2014	11/4/2014	5/20/2015	11/11/2015	6/4/2014	11/4/2014	5/19/2015	11/11/2015
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-32R_06042014	PDMW-32R_11062014	PDMW-32R_05192015	PDMW-32R_11112015	PDMW-33R2_06042014	PDMW-33R2_11042014	PDMW-33R2_05202015	PDMW-33R2_11112015	PDMW-40R_11052014	PDMW-45R_06032014	PDMW-45R_11032014	PDMW-45R_05202015	PDMW-45R_11112015	PDMW-46_06042014	PDMW-46_11032014	PDMW-46_05202015	PDMW-46_11112015	PDMW-47_06042014	PDMW-47_11042014	PDMW-47_05202015	PDMW-47_11112015	PDMW-48_06042014	PDMW-48_11042014	PDMW-48_05192015	PDMW-48_11112015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	NAPHTHALENE	1	20	20	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	PYRENE	0.5	1000	- -	ug/L	9.9 U	NA	NA	NA	9.7 U	NA	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	NA	NA	NA	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA	NA	NA	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	NA	0.01 U	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	NA	NA	NA	NA	0.04 U	NA	NA
	ZINC	0.96	2	31	mg/L	0.031	0.21	0.11	0.12	0.02 U	NA	NA	NA	NA	0.02 U	NA	NA	NA	0.4	NA	NA	NA	0.02 U	NA	NA	NA	NA	0.02 U	NA	NA
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	11	7	0.7	1.3	16	20	14	15	***44***	8.6	4.7	3.6	0.8	2.9	2.2	0.6	1.1	***72***	***110***	***39***	***39***	27	22	8.5	28
	NITRATE (AS N)	- -	10	- -	mg/L	0.05 U	0.05 U	0.05 U	0.17	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.11
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U	0.05 U	NA	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U	0.073	NA	NA	0.052	0.05 U	NA	NA	0.19	0.11
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking \

ND - No constituents detected above the laboratory minimum detection limit.

F1: Indicates MS or MSD recovery is outside of specified limits

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UH: Indicates sample analyzed outside of specified hold time.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, PDM\
replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32P, PDMW-33T, P

Table 2
Summary of Last Four Rounds of Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-49			PDMW-50			PDMW-51			PDMW-52				PDMW-53			TMW-1							TMW-4R				FIELDQC	
					Sample Date:	6/6/2014	11/4/2014	5/18/2015	6/4/2014	11/6/2014	5/19/2015	6/6/2014	11/6/2014	5/18/2015	6/5/2014		11/6/2014	5/18/2015	11/4/2014	5/19/2015	11/11/2015	6/5/2014	11/5/2014		5/21/2015	5/21/2015	11/12/2015	11/12/2015	6/3/2014	11/4/2014	5/19/2015	11/12/2015	6/3/2014	11/6/2014
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Dup	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-49_06062014	PDMW-49_11042014	PDMW-49_05182015	PDMW-50_06042014	PDMW-50_11062014	PDMW-50_05192015	PDMW-51_06062014	PDMW-51_11062014	PDMW-51_05182015	PDMW-52_06052014	DUP-03_06052014	PDMW-52_11062014	PDMW-52_05182015	PDMW-53_11042014	PDMW-53_05192015	PDMW-53_11112015	TMW-01_06052014	TMW-1_11052014	DUP-1_11052014	DUP_01_052120 15	TMW_1_05212015	DUP-02_11122015	TMW-1_11122015	TMW-4R_06032014	TMW-4R_11042014	TMW-4R_05192015	TMW-4R_11122015	FB-01_06032014	FB-01_11062014
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U*	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	ANTHRACENE	0.2	0.2	5100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	CHRYSENE	0.2	0.2	65	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	FLUORANTHENE	0.5	1000	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	FLUORENE	0.5	1000	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	12	12	11	9.7 U	11	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	16	16	11	9.7 U	13	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	NAPHTHALENE	1	20	20	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***39***	***44***	***40***	***44***	***40***	***63***	***26 F1***	9.9 U	NA	NA	NA	9.8 U	9.6 U
	PHENANTHRENE	0.22	0.2	510	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	PYRENE	0.5	1000	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	9.9 U	NA	NA	NA	9.8 U	9.6 U
	TOTAL PAHs	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	72	68	66	40	87	58	ND	NA	NA	NA	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***81***	***80***	***77***	***48***	***47***	***51***	***52***	1 U	NA	NA	NA	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	250	420	420	120	110	220	220	2 U	NA	NA	NA	2 U	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	331	500	497	168	157	271	272	ND	NA	NA	NA	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.095***	***0.13***	***0.15***	***0.14***	***0.16 F1***	***0.12***	***0.15***	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.017	0.026	0.03	0.019	0.032	0.023	0.029	0.01 U	NA	NA	NA	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.041	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.072	0.097	0.094	0.072	0.077	0.063	0.078	0.02 U	NA	NA	NA	0.02 U	0.066
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	0.42	1.7	0.63	7.8	7.7	5.9	7	5.7	3	11	8.8	0.9	0.58	5.5	1.6	3.6	***2600***	***3800***	***3900***	***3700***	***4300***	***3400***	***3600 F1***	6.1	7.8	6.8	3.1	0.054	0.05 U
	NITRATE (AS N)	- -	10	- -	mg/L	0.05 UH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	170	120	100	280	290	230	250 F1	0.05 U	0.05 U	0.05 U	0.05 U	0.17	0.17
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	0.05 U	NA	NA	0.088	NA	NA	0.05 U	NA	NA	NA	0.05 U	NA	0.089	0.05 U	NA	NA	NA	50 U	50 UF1	10 U	10 U	NA	NA	0.081	0.05 U	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking \

ND - No constituents detected above the laboratory minimum detection limit.

F1: Indicates MS or MSD recovery is outside of specified limits

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UH: Indicates sample analyzed outside of specified hold time.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, PDM\
replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32P, PDMW-33T, P

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						EW-1													
Sample Date:						4/4/2008	7/19/2008	10/8/2008	12/3/2009	6/19/2010	12/16/2010	6/14/2011	12/6/2011	12/12/2013	6/4/2014	11/4/2014	5/20/2015	5/20/2015	11/12/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal
Sample ID:						EW-1_4/4/2008	EW-1_7/19/2008	EW-1_10/8/2008	EW-1_12/3/2009	EW-1_6/19/2010	EW-1_12/16/2010	EW-1_061411	EW-1_12062011	EW-1_12/12/2013	EW-01_06042014	EW-1_11042014	DUP-02_05202015	EW-01_05202015	EW-1_11122015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	2.3 J	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	ACENAPHTHYLENE	1.4	1	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	ANTHRACENE	0.2	0.2	5100	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	CHRYSENE	0.2	0.2	65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	FLUORANTHENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	FLUORENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.76 U	3.8 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	NAPHTHALENE	1	20	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	PHENANTHRENE	0.22	0.2	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 UJ	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	PYRENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	3.4 J	NA	NA	NA	9.2 U	10 U	NA	NA	NA	NA
PAHs	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	5.7	NA	NA	NA	ND	ND	NA	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA	NA	NA
VOCs	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA	NA	NA
VOCs	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
VOCs	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA	NA	NA
VOCs	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA	2 U	2 U	NA	NA	NA	NA
VOCs	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	10 U	10 U	NA	NA	10 UJ	NA	NA	NA	10 U	NA	NA	NA	NA	NA
VOCs	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.05 U	0.05 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	***0.02***	0.02 U	0.02 U	0.02 U
Metals, Total	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.013	0.1	- -	mg/L	0.05 U	0.05 U	0.01 U	0.01 U	0.013	NA	NA	NA	0.0039	0.012	0.013	0.01 U	0.01 U	0.01 U
Metals, Total	LEAD	0.007	0.015	0.015	mg/L	0.025 U	***0.025***	***0.054***	0.01 U	0.01 U	***0.04***	0.02 U	0.01	***0.037***	0.01	0.01 U	0.01 U	0.01 U	0.01 U
Metals, Total	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.13	0.1	2	mg/L	***0.24***	***0.22***	***0.2***	0.047	***0.12***	NA	NA	NA	0.04	0.1	0.1	0.044	0.044	0.06
Metals, Total	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.96	2	31	mg/L	1.2	1.3	0.83	0.15	0.75	NA	NA	NA	0.25	0.55	0.47	0.19	0.19	0.17
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	***97***	***41***	***420***	2.5	***240 J***	***580***	***530***	***400***	***160***	***1100***	***540***	***260***	***320 F1***	***270***
Miscellaneous	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.044	0.05 U	0.29	0.097	0.063	0.05 U
Miscellaneous	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U
Miscellaneous	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA

Location:		MW-1																											
Sample Date:		10/15/1997	9/28/1999	11/18/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/12/2001	2/7/2002	9/11/2002	2/7/2003	6/27/2003		1/30/2004		7/23/2004	3/7/2006	4/3/2008	7/21/2008	10/6/2008	12/3/2009	6/16/2010	6/13/2011	12/11/2013	6/3/2014		11/3/2014	5/20/2015
Sample Type:		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal
Sample ID:		MW-1_10/15/1997	MW-1_9/28/1999	MW-1_11/18/1999	MW-1_2/24/2000	MW-1_5/16/2000	MW-1_8/22/2000	MW-1_1/10/2001	MW-1_7/12/2001	MW-1_2/7/2002	MW-1_9/11/2002	MW-1_2/7/2003	MW-1_6/27/2003	MW-1_DUP_6/27/2003	MW-1_1/30/2004	MW-1 (DUP)_1/30/2004	MW-1_7/23/2004	MW-1_3/7/2006	MW-1_4/3/2008	MW-1_7/21/2008	MW-1_10/6/2008	MW-1_12/3/2009	MW-1_6/16/2010	MW-1-061311	MW-1_12/11/2013	MW-01_06032014	DUP-01_06032014	MW-1_11032014	MW-1_05202015
Method Group	Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.39	0.2 U	0.23	0.2 U	1 U	0.24	0.45	19 U	0.27	0.31	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	ACENAPHTHYLENE	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	ANTHRACENE	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	***0.27***	19 U	0.19 U	***0.35***	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	BENZO(A)ANTHRACENE	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	BENZO(A)PYRENE	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	BENZO(B)FLUORANTHENE	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	BENZO(G,H,I)PERYLENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	BENZO(K)FLUORANTHENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	CHRYSENE	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	***0.23***	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	FLUORANTHENE	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.34	0.26	0.48	0.21	0.3	0.31	1 U	0.19 U	0.54	19 U	0.45	0.66	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	FLUORENE	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.3	19 U	0.23 *	0.31	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	INDENO(1,2,3-CD)PYRENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.76 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	NAPHTHALENE	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	0.19 U	19 U	0.19 U	0.19 U	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	PHENANTHRENE	***0.26***	NA	***0.22***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.19 U	***0.28***	19 U	0.19 U	***0.43***	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	PYRENE	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5	0.36	0.47	0.26	0.42	0.41	1.1	0.38	0.66	19 U	0.54	1.1	NA	10 U	9.5 U	9.6 U	NA	NA
PAHs	TOTAL PAHs	0.26	NA	0.22	ND	ND	ND	ND	ND	ND	ND	1.04	0.62	1.34	0.47	0.95	0.72	1.1	0.62	2.5	ND	1.49	3.39	NA	ND	ND	ND	NA	NA
VOCs	BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
VOCs	ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
VOCs	p/m-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA
VOCs	o-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA
VOCs	XYLENES (TOTAL)	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	NA
VOCs	METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	10 U	NA	NA	NA	NA
VOCs	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	NA
Metals, Total	ARSENIC	0.01 U	NA	0.01 U	0.01 U	0.01 U	***0.12***	***0.079***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	***0.022***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.018 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Metals, Total	BERYLLIUM	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.022	0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	NA	NA
Metals, Total	LEAD	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.0094	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metals, Total	MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.0026	0.04 U	0.04 U	NA	NA
Metals, Total	POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.026	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	NA	NA
Metals, Dissolved	ARSENIC	NA	NA	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	NA	NA	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	NA	NA	0.005 U	0.005 U	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	MERCURY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	NA	NA	0.02 U	0.022 U	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	19	NA	21	26	23	21	17	***31***	22	***31***	28	17	25	0.36	27	27	17	18	17	18	15	24	23	16	25	18	25	21
Miscellaneous	BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Miscellaneous	NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U
Miscellaneous	SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.
Bold and italic text indicates analytical result exceeds background value.
- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking Water Regulations.
ND - No constituents detected above the laboratory minimum detection limit.
U: Incidactes constituent was not detected above value shown.
J: Indicates constituent was detected at an estimated value.
UJ: Indicates constituent was not detected at an estimated value shown.
Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, PDMW-39R, PDMW-40R, PDMW-45R, and TMW-4R were installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32P, PDMW-33T, PDMW-39, PDMW-40, PDMW-45, and TMW-4 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						MW-2																						
Sample Date:						10/15/1997	8/10/1999	11/17/1999	2/24/2000	5/15/2000	8/21/2000	1/9/2001	7/12/2001	9/11/2002	2/7/2003	6/27/2003	1/30/2004	7/23/2004	3/7/2006	4/3/2008	7/21/2008	10/5/2008	12/3/2009		6/17/2010	6/13/2011	11/4/2014	5/19/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
Sample ID:						MW-2_10/15/1997	MW-2_8/10/1999	MW-2_11/17/1999	MW-2_2/24/2000	MW-2_5/15/2000	MW-2_8/21/2000	MW-2_1/9/2001	MW-2_7/12/2001	MW-2_9/11/2002	MW-2_2/7/2003	MW-2_6/27/2003	MW-2_1/30/2004	MW-2_7/23/2004	MW-2_3/7/2006	MW-2_4/3/2008	MW-2_7/21/2008	MW-2_10/5/2008	MW-2_12/3/2009	MW-2-DUP_12/3/2009	MW-2_6/17/2010	MW-2-061311	MW-2_11042014	MW-2_05192015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.59	0.42	0.48	0.47	0.61	0.45	0.46	0.72	0.8	0.83	0.45	NA	NA	NA
PAHs	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.24	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.76 U	0.38 U	NA	NA	NA
PAHs	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.22	0.2 U	0.29	0.2 U	0.19 U	0.24 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
PAHs	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81	0.42	1.01	0.47	0.61	0.69	0.46	0.72	0.8	0.83	0.45	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
VOCs	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
VOCs	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
VOCs	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA
VOCs	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	10 U	NA	NA	NA
VOCs	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	***0.02***	***0.078***	***0.039***	***0.024***	0.016	***0.038***	***0.028***	0.018	***0.04***	***0.044***	***0.024***	***0.02***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.036 U	0.02 U	0.02 U
Metals, Total	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA
Metals, Total	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U
Metals, Total	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA
Metals, Total	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	0.046	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	NA	29	22	23	22	19	20	20	27	28	18	19	19	6	7.1	7.1	6.3	4.7	4.8	18	15	23	13
Miscellaneous	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U
Miscellaneous	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17
Miscellaneous	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Location:		MW-3R																				
Sample Date:		8/29/2001	2/7/2002	9/13/2002	2/6/2003	6/26/2003	1/30/2004	7/22/2004	3/8/2006		4/4/2008	7/22/2008	10/6/2008	12/7/2009	6/19/2010	6/17/2011	12/13/2013	6/5/2014	11/5/2014		5/19/2015	11/12/2015
Sample Type:		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal
Sample ID:		MW-3R_8/29/2001	MW-3R_2/7/2002	MW-3R_9/13/2002	MW-3R_2/6/2003	MW-3R_6/26/2003	MW-3R_1/30/2004	MW-3R_7/22/2004	MW-3R Filtered_3/8/2006	MW-3R Unfiltered_3/8/2006	MW-3R_4/4/2008	MW-3R_7/22/2008	MW-3R_10/6/2008	MW-3R_12/7/2009	MW-3R_6/19/2010	MW-3R_061711	MW-3R_12/13/2013	MW-3R_06052014	MW-3R_11052014	DUP-2_11052014	MW-3R_05192015	MW-3R_11122015
Method Group	Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1 U	1 U	0.44	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	ACENAPHTHYLENE	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	***10 U****	NA	NA	NA	NA
PAHs	ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	BENZO(A)ANTHRACENE	***0.4 J***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	BENZO(A)PYRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	BENZO(B)FLUORANTHENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	BENZO(G,H,I)PERYLENE	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	BENZO(K)FLUORANTHENE	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	CHRYSENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	FLUORANTHENE	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	FLUORENE	0.5 U	0.5 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	INDENO(1,2,3-CD)PYRENE	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	1-METHYLNAPHTHALENE	NA	NA	0.34	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.75 U	0.38 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	2-METHYLNAPHTHALENE	NA	NA	0.24	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	NAPHTHALENE	1 U	1 U	4.1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	PHENANTHRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	PYRENE	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.1 U	10 U	NA	NA	NA	NA
PAHs	TOTAL PAHs	0.4	ND	5.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA
VOCs	BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	1 U	1 U	NA	NA	NA	NA
VOCs	ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	1 U	1 U	NA	NA	NA	NA
VOCs	p/m-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA
VOCs	o-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	1 U	1 U	NA	NA	NA	NA
VOCs	XYLENES (TOTAL)	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	2 U	2 U	NA	NA	NA	NA
VOCs	METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 UJ	NA	10 U	10 U	NA	NA	NA	NA
VOCs	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	NA
Metals, Total	ARSENIC	0.01 U	0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	0.0076	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Metals, Total	BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.01 U	0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.018	0.01 U	0.01 U	0.019	0.011	0.01 U	0.01 U	0.01 U	NA	0.0042	0.01 U	NA	NA	NA	NA
Metals, Total	LEAD	0.005 U	0.0058	0.0071	0.005 U	0.005 U	0.005 U	0.012	0.005 U	0.005 U	0.01	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	***0.039***	0.01 U	0.01
Metals, Total	MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.0097	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Metals, Total	POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.02 U	0.021	0.041	0.02 U	0.02 U	0.02 U	0.043	0.02 U	0.02 U	0.026	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.01	0.02 U	0.02 U	0.02 U	0.089	0.035
Metals, Dissolved	ARSENIC	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.01 U	0.04 U	NA	NA	NA	NA	0.01 U	NA	NA
Metals, Dissolved	MERCURY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.005 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	NA	0.02 U	NA	NA	NA	NA	NA	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	3.3	8.4	6	7.8	10	7	7.3	NA	1.8	0.8	0.95	0.87	1	0.092 J	1.1	2.6	3.9	6.5	2.2	1.9	1.7
Miscellaneous	BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.056
Miscellaneous	NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.078	0.11
Miscellaneous	SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						MW-4																MW-5																MW-201													
					Sample Date:	10/16/1997	8/9/1999	11/17/1999	2/23/2000	5/15/2000	8/21/2000	1/9/2001	7/10/2001	9/11/2002	2/3/2003	6/25/2003	1/29/2004	7/23/2004	10/16/1997	8/9/1999	11/18/1999	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/11/2001	9/10/2002	2/4/2003	6/25/2003	1/27/2004	7/21/2004	3/8/2006	4/1/2008	7/18/2008	10/9/2008	12/3/2009	6/19/2010	12/16/2010	6/14/2011	12/6/2011	12/11/2013	6/4/2014	5/20/2015	5/20/2015
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal
					Sample ID:	MW-4_10/16/1997	MW-4_8/9/1999	MW-4_11/17/1999	MW-4_2/23/2000	MW-4_5/15/2000	MW-4_8/21/2000	MW-4_1/9/2001	MW-4_7/10/2001	MW-4_9/11/2002	MW-4_2/3/2003	MW-4_6/25/2003	MW-4_1/29/2004	MW-4_7/23/2004	MW-5_10/16/1997	MW-5_8/9/1999	MW-5_11/18/1999	MW-5_2/23/2000	MW-5_5/16/2000	MW-5_8/22/2000	MW-5_1/10/2001	MW-5_7/11/2001	MW-5_9/10/2002	MW-5_2/4/2003	MW-5_6/25/2003	MW-5_1/27/2004	MW-5_7/21/2004	MW-201_3/8/2006	MW-201_4/1/2008	MW-201_7/18/2008	MW-201_10/9/2008	MW-201_12/3/2009	MW-201_6/19/2010	MW-201_12/16/2010	MW-201_6/14/2011	MW-201-061411	MW-201_12/6/2011	MW-201_12/11/2013	MW-201_6/4/2014	DUP-03_05/20/2015	MW-201_05/20/2015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	--	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	BENZO(G,H,I)PERYLENE	--	--	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	BENZO(K)FLUORANTHENE	--	--	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	DIBENZO(A,H)ANTHRACENE	--	0.3	--	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	FLUORANTHENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	FLUORENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U*	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	INDENO(1,2,3-CD)PYRENE	--	0.4	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	1-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.8 U	0.39 UJ	NA	NA	NA	10 U	10 U	NA	NA
	2-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	PYRENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 UJ	NA	NA	NA	10 U	10 U	NA	NA
	TOTAL PAHs	--	--	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA
	ETHYLBENZENE	1	700	--	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA
	p/m-XYLENE	--	--	--	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	--	--	--	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA
	o-XYLENE	--	--	--	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	NA	NA
	XYLENES (TOTAL)	2	10000	--	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA	2 U	2 U	NA	NA
	METHYL TERT BUTYL ETHER	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 UJ	NA	NA	NA	10 U	NA	NA	NA
	TOTAL BTEX	--	--	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U
	BERYLLIUM	--	0.004	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	--	0.005	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	--	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.009	0.01	0.009	***0.026***	0.01 U	0.01 U	0.01 U	0.01 U	0.013	0.01 U	0.01 U	0.01 U
	MAGNESIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	--	0.002	--	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0039	0.04 U	0.04 U	0.04 U
	POTASSIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.036	0.039	0.045	0.033	0.044	NA	NA	NA	0.033	0.02 U	0.02 U	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	--	0.004	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	--	0.005	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	--	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	--	0.002	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	11	10	9	9.3	11	14	14	13	14	10	11	12	NA	6.1	7.9	5.1	5.6	4.8	5.4	6.2	6.1	4.7	2.3	2.7	4.2	25	4.5	3.3	1.2	6	10 J	NA	23	NA	3.8	15	1.1	1.1
	BICARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	--	10	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.15	0.07	0.05 U	0.05 U
	NITRITE (AS N)	--	--	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U
	SULFATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						Location:	MW-202							MW-203							MW-204										
						Sample Date:	3/8/2006	4/1/2008	7/19/2008	10/9/2008	12/1/2009	6/18/2010	11/4/2014	3/8/2006	4/2/2008		7/19/2008	10/8/2008	12/1/2009	6/18/2010		4/3/2008	7/20/2008	10/7/2008		12/1/2009	3/23/2010	6/16/2010		9/14/2010	12/15/2010	6/15/2011	12/6/2011	11/5/2014
						Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal
						Sample ID:	MW-202_3/8/2006	MW-202_4/1/2008	MW-202_7/19/2008	MW-202_10/9/2008	MW-202_12/1/2009	MW-202_6/18/2010	MW-202_110420 14	MW-203_3/8/2006	MW-203_4/2/2008	MW-203 DUP_4/2/2008	MW-203_7/19/2008	MW-203_10/8/2008	MW-203_12/1/2009	MW-203_6/18/2010	MW-203DUP_6/18/2010	MW-204_4/3/2008	MW-204_7/20/2008	MW-204_10/7/2008	MW-204-DUP_10/7/2008	MW-204_12/1/2009	MW-204_3/23/2010	MW-204_6/16/2010	MW-204 DUP_6/16/2010	MW-204_9/14/2010	MW-204_12/15/2010	MW-204_061511	MW-204_120620 11	MW-204_110520 14
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 UJ	0.2 UJ	0.32	0.27	19 U	19 U	0.3	0.42 J	0.24	0.22	0.19 U	0.19	0.2 U	0.24	10 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.24	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	***0.27***	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	***0.29***	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	***0.3***	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	0.19 U	10 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	CHRYSENE	0.2	0.2	65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	***0.29***	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.19 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	0.19 U	10 U
	FLUORANTHENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.53	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	FLUORENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.42	19 U	19 U	0.19 U	0.42 J	0.28	0.34	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.78 U	0.38 UJ	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.78 U	0.4 UJ	0.38 UJ	7.1	1.1	19 U	19 U	1.3	1.6 J	0.67	0.57	0.38 U	0.38 U	0.39 U	0.38 U	10 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 UJ	0.19 UJ	0.39	0.19 U	23	20	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	NAPHTHALENE	1	20	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	0.34	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 UJ	0.19 UJ	0.2 U	0.37	***100***	***76***	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	***0.77***	***32***	***34***	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	PYRENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	0.2 U	0.69	19 U	19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	10 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	NA	0.34	ND	ND	ND	ND	ND	ND	ND	8.18	5.54	155	130	1.6	2.44	1.19	1.13	ND	0.19	ND	0.24	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***32***	***28***	***9.5***	***9.9***	***16***	NA	***12***	***14***	NA	1 U	1 U	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	NA	1 U	1 U	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	NA	2 U	2 U	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	10 U	10 U	10 U	NA	NA	10 U	NA	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	32	28	9.5	9.9	16	NA	12	14	NA	ND	ND	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.021	0.036	0.064	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.025	0.033	0.046	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	0.64	0.28 U	0.79	0.51	0.59	0.74	1	1.3	1.2	1.1	0.53	3	0.95	1 J	0.96	***520***	***520***	***430***	***440***	***340***	NA	***290***	***300***	NA	***300***	***290***	***370***	***340***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-1T																										PDMW-2T																													
Sample Date:						10/30/1997	8/10/1999	11/16/1999	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/6/2002	9/12/2002	2/6/2003	6/25/2003	1/29/2004	7/20/2004	3/8/2006	4/3/2008	7/21/2008	10/7/2008	12/5/2009	6/17/2010	6/13/2011	10/29/1997	8/9/1999	11/16/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	9/10/2002	2/6/2003	6/26/2003	1/27/2004	7/21/2004	3/6/2006	4/2/2008	7/19/2008	10/5/2008	12/1/2009	6/18/2010	6/15/2011	12/21/2011											
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal											
Sample ID:						PDMW-1T_10/30/1997	PDMW-1T_8/10/1999	PDMW-1T_11/16/1999	PDMW-1T_2/23/2000	PDMW-1T_5/16/2000	PDMW-1T_8/22/2000	PDMW-1T_1/10/2001	PDMW-1T_7/16/2001	PDMW-1T_2/6/2002	PDMW-1T_9/12/2002	PDMW-1T_2/6/2003	PDMW-1T_6/25/2003	PDMW-1T_1/29/2004	PDMW-1T_7/20/2004	PDMW-1T_3/8/2006	PDMW-1T_4/3/2008	PDMW-1T_7/21/2008	PDMW-1T_10/7/2008	PDMW-1T_12/5/2009	PDMW-1T_6/17/2010	PDMW-1T-061311	PDMW-2T_10/29/1997	PDMW-2T_8/9/1999	PDMW-2T_11/16/1999	PDMW-2T_2/24/2000	PDMW-2T_5/16/2000	PDMW-2T_8/22/2000	PDMW-2T_1/10/2001	PDMW-2T_7/16/2001	PDMW-2T_9/10/2002	PDMW-2T_2/6/2003	PDMW-2T_6/26/2003	PDMW-2T_1/27/2004	PDMW-2T_7/21/2004	PDMW-2T_3/6/2006	PDMW-2T_4/2/2008	PDMW-2T_7/19/2008	PDMW-2T_10/5/2008	PDMW-2T_12/1/2009	PDMW-2T_6/18/2010	PDMW-2T-061511	PDMW-2T_12211											
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result											
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	ANTHRACENE	0.2	0.2	5100	ug/L	***0.32***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	***0.31***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	***0.26***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	***0.26***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	CHRYSENE	0.2	0.2	65	ug/L	***0.44***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	1 U	NA	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	7.5 U	0.38 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 UJ	NA	NA											
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	1 U	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA											
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA											
	TOTAL PAHs	- -	- -	- -	ug/L	1.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA											
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA											
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA											
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA											
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA											
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA											
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA											
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA											
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA											
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.012	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01	0.011	0.01 U	0.01 U	0.01 U	0.015	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	***0.0193***	***0.023***	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	0.018 U											
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA											
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA											
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA											
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.063	0.02 U	0.027	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA											
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	AMMONIA AS N	15	30	30	mg/L	2	5	8.2	13	17	22	16	24	18	19	18	12	1.9	0.038	25	17	14	15	9.6	12	***34***	29	19	27	26	24	22	25	18	***37***	***45***	18	0.59	27	3.2	2.8	0.85	2.6	7.7	15	***120***	NA											
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-3T																																
					Sample Date:	10/29/1997	8/11/1999	11/16/1999	2/23/2000	2/24/2000	5/16/2000	8/21/2000	1/9/2001	7/11/2001	2/4/2002	9/10/2002	2/6/2003	6/26/2003	1/27/2004	7/21/2004	3/6/2006		4/2/2008	7/19/2008	10/4/2008	12/1/2009	6/16/2010	12/15/2010	6/15/2011		12/8/2011
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal
					Sample ID:	PDMW-3T_10/29/1997	PDMW-3T_8/11/1999	PDMW-3T_11/16/1999	PDMW-3T_2/23/2000	PDMW-3T_2/24/2000	PDMW-3T_5/16/2000	PDMW-3T_8/21/2000	PDMW-3T_1/9/2001	PDMW-3T_7/11/2001	PDMW-3T_2/4/2002	PDMW-3T_9/10/2002	PDMW-3T_2/6/2003	PDMW-3T_6/26/2003	PDMW-3T_1/27/2004	PDMW-3T_7/21/2004	MW-3T Unfiltered _3/6/2006	PDMW-3T Filtered _3/6/2006	PDMW-3T_4/2/2008	PDMW-3T_7/19/2008	PDMW-3T_10/4/2008	PDMW-3T_12/1/2009	PDMW-3T_6/16/2010	PDMW-3T_12/15/2010	PDMW-3T_061511	PDMW-3T_061511FF	PDMW-3T_12082011
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.8 U	0.39 U	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.2 U	0.19 U	NA	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	3.3	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	3.3	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	NA	0.017	***0.049***	***0.058***	0.01 U	***0.043***	***0.02***	0.012	***0.031***	***0.029***	0.01 U	***0.034***	***0.02***	***0.021***	***0.035***	***0.036***	***0.046***	0.02 U	0.02 U	0.018	***0.035***	NA	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.03	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.0082	***0.016***	***0.02***	NA	***0.036***	***0.025***	0.005 U	0.014	0.0092	0.005 U	0.005 U	0.01	0.015	0.0057	***0.02***	0.0094	0.005 U	***0.028***	***0.17***	0.013	0.01 U	0.01 U	0.01	0.014	NA	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.1	0.056	NA	0.074	0.046	0.02 U	0.062	0.037	0.42	0.12	0.042	0.02 U	0.089	0.029	0.037	0.02	0.031	0.18	0.026	0.02 U	0.059	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	NA	0.01 U	NA	0.01 U	0.013	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	***0.021***	***0.03***	0.01 U	NA	NA	0.02 U	NA	NA	***0.032***	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	NA	***0.016***	NA	***0.016***	0.0069	NA	0.0074	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	NA	NA	0.01 U	NA	NA	0.01 U	0.0015 U
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	NA	0.04 U	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	NA	NA	0.04 U	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	NA	0.042	NA	0.049	0.03	NA	0.047	0.075	0.44	NA	NA	NA	NA	NA	NA	0.02	0.02 U	0.039	NA	NA	0.02 U	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	1.4	***6600***	0.84	0.81	NA	1.8	2.9	0.54	3.2	2	1.2	0.75	1.6	0.31	4.3	0.67	NA	2.5	0.72	4.3	0.62	2.5	NA	2.7	NA	1.3
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinki

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-4T																							
Sample Date:						10/23/1997	8/9/1999	11/17/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/12/2001	2/5/2002	9/11/2002	2/7/2003	6/25/2003	1/29/2004	7/23/2004	3/6/2006	4/3/2008	7/20/2008	10/6/2008	12/4/2009		6/19/2010	12/15/2010	6/16/2011	12/7/2011
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
Sample ID:						PDMW-4T_10/23/1997	PDMW-4T_8/9/1999	PDMW-4T_11/17/1999	PDMW-4T_2/24/2000	PDMW-4T_5/16/2000	PDMW-4T_8/22/2000	PDMW-4T_1/10/2001	PDMW-4T_7/12/2001	PDMW-4T_2/5/2002	PDMW-4T_9/11/2002	PDMW-4T_2/7/2003	PDMW-4T_6/25/2003	PDMW-4T_1/29/2004	PDMW-4T_7/23/2004	PDMW-4T_3/6/2006	PDMW-4T_4/3/2008	PDMW-4T_7/20/2008	PDMW-4T_10/6/2008	PDMW-4T_12/4/2009	PDMW-4T-DUP_12/4/2009	PDMW-4T_6/19/2010	PDMW-4T_12/15/2010	PDMW-4T_061611	PDMW-4T_12/7/2011
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.76 U	0.76 U	0.38 UJ	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.97 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	10 UJ	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.017	0.01 U	0.01 U	0.01 U	***0.023***	0.01 U	0.018	NA	0.01 U	0.01 U	0.014	0.011	***0.02***	***0.022***	***0.036***	***0.02***	***0.033***	0.02 U	0.02 U	***0.039***	***0.019***	***0.027***	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.102	0.14	0.056	0.17	0.11	0.02 U	0.26	0.19	NA	0.24	0.12	0.039	0.096	0.051	0.08	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.057	0.16	0.087	NA	0.24	0.14	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***90***	***410***	***220***	***200***	***300***	***1000***	***100***	***370***	NA	***280***	***46***	***280***	***440***	***530***	***410***	***810***	***200***	***550***	***140***	***140***	***330 J***	***220***	***150***	***120***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and Italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-5T																								
Sample Date:						10/30/1997	8/9/1999	11/17/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/12/2001	9/12/2002		2/6/2003	6/27/2003	1/29/2004	7/23/2004	3/6/2006	4/4/2008	7/21/2008	10/6/2008	12/5/2009	6/17/2010	12/16/2010		6/16/2011		12/7/2011
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal		Normal
Sample ID:						PDMW-5T_10/30/1997	PDMW-5T_8/9/1999	PDMW-5T_11/17/1999	PDMW-5T_2/24/2000	PDMW-5T_5/16/2000	PDMW-5T_8/22/2000	PDMW-5T_1/10/2001	PDMW-5T_7/12/2001	PDMW-5T_9/12/2002	PDMW-5T (DUP)_9/12/2002	PDMW-5T_2/6/2003	PDMW-5T_6/27/2003	PDMW-5T_1/29/2004	PDMW-5T_7/23/2004	PDMW-5T_3/6/2006	PDMW-5T_4/4/2008	PDMW-5T_7/21/2008	PDMW-5T_10/6/2008	PDMW-5T_12/5/2009	PDMW-5T_6/17/2010	PDMW-5T_12/16/2010	PDMW-5TDUP3_12/16/2010	PDMW-5T-061611	PDMW-5T-061611FF	PDMW-5T_12072011
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.78 U	0.38 U	NA	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	***0.098***	***0.066***	0.01 U	***0.049***	***0.082***	0.01 U	***0.069***	***0.034***	***0.028***	0.01 U	***0.035***	0.01 U	***0.074***	0.01 U	0.01 U	0.01 U	***0.019***	0.02 U	0.02 U	0.018 U	0.018 U	0.018 U	NA	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0053	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.035	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01	0.01 U	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018 U	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	2.6	6.1	14	4	5	6.7	4	6.6	4.5	4.6	3.8	4.6	0.03 U	5.4	1.3	1.4	1.2	1.3	1	3.1	NA	NA	1.1	NA	NA
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-6P																							
Sample Date:						10/30/1997	8/11/1999	11/16/1999	2/23/2000	5/15/2000	8/21/2000	1/9/2001	7/12/2001	2/5/2002	9/12/2002	2/7/2003	6/25/2003	1/29/2004	7/23/2004		3/6/2006	4/3/2008	7/20/2008	10/6/2008	12/3/2009	6/17/2010	12/15/2010	6/16/2011	12/7/2011
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-6P_10/30/1997	PDMW-6P_8/11/1999	PDMW-6P_11/16/1999	PDMW-6P_2/23/2000	PDMW-6P_5/15/2000	PDMW-6P_8/21/2000	PDMW-6P_1/9/2001	PDMW-6P_7/12/2001	PDMW-6P_2/5/2002	PDMW-6P_9/12/2002	PDMW-6P_2/7/2003	PDMW-6P_6/25/2003	PDMW-6P_1/29/2004	PDMW-6P_7/23/2004	PDMW-6P (DUP)_7/23/2004	PDMW-6P_3/6/2006	PDMW-6P_4/3/2008	PDMW-6P_7/20/2008	PDMW-6P_10/6/2008	PDMW-6P_12/3/2009	PDMW-6P_6/17/2010	PDMW-6P_12/15/2010	PDMW-6P_061611	PDMW-6P_120720111
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.47	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.4 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.23	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	0.23	ND	ND	ND	ND	1.23	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	1.1	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.016	NA	0.017	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.014	***0.037***	0.02 U	***0.024***	***0.043***	0.018 U	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.037	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.023	0.034	0.02 U	0.036	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	0.018	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.039	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	10	12	8.4	7.2	22	9	7.7	10	NA	6.3	5.8	2.3	0.043	5.9	6.9	5.8	25	***38***	18	***38***	***95***	***31***	***38***	***39***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-7P																									PDMW-8R														
Sample Date:						10/30/1997	8/10/1999	11/17/1999	2/25/2000	5/15/2000	8/21/2000	1/9/2001	7/11/2001	2/4/2002	9/11/2002	2/7/2003	6/27/2003	1/30/2004	7/22/2004	3/9/2006	4/2/2008	7/21/2008	10/8/2008	12/4/2009	6/16/2010	12/14/2010	6/16/2011	12/7/2011	12/12/2013	6/4/2014	11/4/2014	5/19/2015	4/3/2008	7/21/2008	10/5/2008	12/4/2009	6/17/2010	12/15/2010	6/15/2011	12/5/2011	12/12/2013	6/3/2014		11/5/2014	5/20/2015	11/12/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal
Sample ID:						PDMW-7P_10/30/1997	PDMW-7P_8/10/1999	PDMW-7P_11/17/1999	PDMW-7P_2/25/2000	PDMW-7P_5/15/2000	PDMW-7P_8/21/2000	PDMW-7P_1/9/2001	PDMW-7P_7/11/2001	PDMW-7P_2/4/2002	PDMW-7P_9/11/2002	PDMW-7P_2/7/2003	PDMW-7P_6/27/2003	PDMW-7P_1/30/2004	PDMW-7P_7/22/2004	PDMW-7P_3/9/2006	PDMW-7P_4/2/2008	PDMW-7P_7/21/2008	PDMW-7P_10/8/2008	PDMW-7P_12/4/2009	PDMW-7P_6/16/2010	PDMW-7P_12/14/2010	PDMW-7P-061611	PDMW-7P_12/7/2011	PDMW-7P_12/12/2013	PDMW-07P_060420 14	PDMW-7P_11042014	PDMW-7P_0515201 5	PDMW-8R_4/3/2008	PDMW-8R_7/21/200 8	PDMW-8R_10/5/200 8	PDMW-8R_12/4/200 9	PDMW-8R_6/17/201 0	PDMW-8R_12/15/20 10	PDMW-8R_061511	PDMW-8R-12052011	PDMW-8R_12/12/20 13	PDMW-8R_0603201 4	DUP-02_0603201 4	PDMW-8R_1105201 4	PDMW-8R_0520201 5	PDMW-8R_1112201 5
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.23	0.19 U	0.2 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 UJ	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.75 U	0.19 U	NA	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.75 U	0.38 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.9 U	9.9 U	NA	NA	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.9 U	9.9 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	ND	ND	0.23	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	NA	NA	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	***0.0261***	0.01 U	0.01 U	0.01 U	0.01 U	0.011	***0.022***	***0.02***	***0.023***	***0.024***	0.01 U	***0.047***	0.01 U	0.015	0.018	0.01 U	0.01 U	***0.023***	***0.043***	***0.091***	***0.026***	***0.023***	***0.038***	0.018 U	0.0097	0.02 U	0.02 U	0.02 U	***0.053***	***0.08***	***0.092***	0.02 U	***0.08***	0.036 U	***0.04***	0.018 U	0.01	***0.029***	***0.028***	0.02 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 U	0.005 U	0.005 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0053	0.04 U	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0036	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***54***	***35***	30	***35***	***43***	16	27	26	20	***36***	23	***36***	0.14	23	15	12	15	9.2	7.8	6.4	NA	12	NA	13	12	16	16	***31***	***35***	***55***	***41***	***63***	***82***	***60***	***68***	***39***	***62***	***63***	***94***	***64***	***60***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.095	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	0.05 U		
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-8T															PDMW-9T																									
	Sample Date:					10/29/1997	8/10/1999	11/17/1999	2/25/2000	5/16/2000	8/21/2000	1/10/2001	7/11/2001	2/6/2002	9/12/2002	2/6/2003	6/25/2003	1/29/2004	7/20/2004	3/6/2006	10/30/1997	8/9/1999	11/16/1999	2/24/2000	5/16/2000	8/21/2000	1/10/2001	7/11/2001	2/6/2002	9/11/2002	2/3/2003	6/25/2003	1/29/2004	7/22/2004	3/8/2006		4/3/2008	7/21/2008	10/5/2008	12/3/2009	6/17/2010	12/14/2010	6/15/2011	12/5/2011	12/21/2011
	Sample Type:					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
	Sample ID:					PDMW-8T_10/29/1997	PDMW-8T_8/10/1999	PDMW-8T_11/17/1999	PDMW-8T_2/25/2000	PDMW-8T_5/16/2000	PDMW-8T_8/21/2000	PDMW-8T_1/10/2001	PDMW-8T_7/11/2001	PDMW-8T_2/6/2002	PDMW-8T_9/12/2002	PDMW-8T_2/6/2003	PDMW-8T_6/25/2003	PDMW-8T_1/29/2004	PDMW-8T_7/20/2004	PDMW-8T_3/6/2006	PDMW-9T_10/30/1997	PDMW-9T_8/9/1999	PDMW-9T_11/16/1999	PDMW-9T_2/24/2000	PDMW-9T_5/16/2000	PDMW-9T_8/21/2000	PDMW-9T_1/10/2001	PDMW-9T_7/12/2001	PDMW-9T_2/6/2002	PDMW-9T_9/11/2002	PDMW-9T_2/3/2003	PDMW-9T_6/25/2003	PDMW-9T_1/29/2004	PDMW-9T_7/22/2004	PDMW-9T Filtered_3/8/2006	PDMW-9T Unfiltered_3/8/2006	PDMW-9T_4/3/2008	PDMW-9T_7/21/2008	PDMW-9T_10/5/2008	PDMW-9T_12/3/2009	PDMW-9T_6/17/2010	PDMW-9T_12/14/2010	PDMW-9T-061511	PDMW-9T-12052011	PDMW-9T_1221201 1
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result		Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2	0.19 U	0.23	0.23	0.47	0.37	0.43	0.51	NA	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	*1.6*	0.22	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19	NA	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.21	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.4	0.19 U	0.75 U	0.38 U	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	0.22	ND	0.21	ND	0.2	ND	0.23	0.23	0.87	0.37	0.43	0.7	NA	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0134	*0.067*	*0.04*	0.016	*0.035*	*0.048*	0.012	*0.037*	*0.024*	*0.062*	*0.024*	*0.061*	*0.037*	*0.072*	*0.019*	0.018	*0.019*	*0.02*	0.017	0.02 U	0.02 U	0.018 U	0.018 U	NA	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0078	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	*0.019*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	*60*	*52*	*73*	*96*	*65*	*47*	*55*	*65*	*83*	*110*	*94*	*62*	*47*	*64*	*34*	*190*	*200*	*170*	*140*	*160*	*150*	*58*	*120*	*100*	*200*	*130*	*44*	*170*	*180*	NA	*120*	*170*	*170*	*120*	16	*93*	*180*	*170*	*140*	NA
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drini

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-10R											
					Sample Date:	4/2/2008	7/19/2008	10/8/2008	12/3/2009	6/17/2010	6/14/2011	12/12/2013		6/5/2014	11/5/2014	5/20/2015	11/12/2015
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-10R_4/2/2008	PDMW-10R_7/19/2008	PDMW-10R_10/8/2008	PDMW-10R_12/3/2009	PDMW-10R_6/17/2010	PDMW-10R-061411	PDMW-10R_12/12/2013	DUP-1_12/12/2013	PDMW-10R_06052014	PDMW-10R_11052014	PDMW-10R_05202015	PDMW-10R_11122015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	0.19 U	0.19 U	0.54	0.66	2.8 J	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U*	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.19 U	0.23	0.19 U	0.19 U*	1.4 J	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.76 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 UJ	NA	9.2 U	9.1 U	9.8 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	0.23	0.54	0.66	4.2	NA	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	5 U	5 U	5 U	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	10 U	10 U	NA	NA	10 U	NA	10 U	10 U	10 U	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.0033	0.0029	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.032	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	13	15	18	9.9	13	16	11	11	13	12	7.3	7.9
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA

Location:	PDMW-10T															
Sample Date:	10/23/1997	8/11/1999	11/17/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/6/2002	9/12/2002	2/5/2003	6/24/2003	1/29/2004	7/21/2004		3/7/2006
Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal
Sample ID:	PDMW-10T_10/23/1997	PDMW-10T_8/11/1999	PDMW-10T_11/17/1999	PDMW-10T_2/24/2000	PDMW-10T_5/16/2000	PDMW-10T_8/22/2000	PDMW-10T_1/10/2001	PDMW-10T_7/16/2001	PDMW-10T_2/6/2002	PDMW-10T_9/12/2002	PDMW-10T_2/5/2003	PDMW-10T_6/24/2003	PDMW-10T_1/29/2004	PDMW-10T_7/21/2004	PDMW-10T (DUP)_7/21/2004	PDMW-10T_3/7/2006
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
ACENAPHTHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.43	0.2 U	0.2 U	0.2 U	1.9 U
ACENAPHTHYLENE	1 U	1 U	1 U	1 U	1 U	1 U	***2***	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
ANTHRACENE	0.2 U	0.2 U	***0.22***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
BENZO(A)ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
BENZO(A)PYRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
BENZO(B)FLUORANTHENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
BENZO(G,H,I)PERYLENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
BENZO(K)FLUORANTHENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
CHRYSENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
DIBENZO(A,H)ANTHRACENE	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
FLUORENE	0.5 U	1.1 J	0.98	0.5 U	0.5 U	0.5 U	0.7	0.86	0.5 U	1 U	0.39	0.71	0.34	0.58	0.49	1.9 U
INDENO(1,2,3-CD)PYRENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
NAPHTHALENE	5.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
PHENANTHRENE	***0.79***	0.2 U	0.2 U	0.2 U	0.02 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.9 U
TOTAL PAHs	6.19	1.1	1.2	ND	ND	ND	2.7	0.86	ND	ND	0.39	1.14	0.34	0.58	0.49	ND
BENZENE	***6***	1 U	1 U	***18***	1 U	1 U	***13***	1 U	1 U	1 U	2.6	1 U	3.8	1 U	1.3	1 U
ETHYLBENZENE	1 U	1 U	1 U	5.5	1 U	1 U	3	1 U	1 U	1 U	1 U	1 U	1.2	1 U	1 U	1 U
p/m-XYLENE	NA	1.2	1 U	1 U	1 U	1 U	1.2	1 U	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	1.1	1.1	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	5.3	1 U	1 U	1 U	1 U	1 U	1 U	1.5	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES (TOTAL)	5.9	1.2	1 U	1 U	1 U	1 U	2.3	1.1	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
TOTAL BTEX	17.2	1.2	ND	23.5	ND	ND	18.3	2.6	ND	1.1	2.6	ND	5	ND	1.3	ND
ARSENIC (total)	0.01 U	0.015	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.012	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
BERYLLIUM (total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BORON (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM METAL (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (total)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
LEAD (total)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
MAGNESIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY (total)	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL (total)	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
POTASSIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC (total)	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ARSENIC (dissolved)	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (dissolved)	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD (dissolved)	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL (dissolved)	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC (dissolved)	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMMONIA AS N	NA	2.1	14	7.5	3.8	18	0.49	11	14	9.4	0.49	3.6	0.52	3.7	4.1	4.7
BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Location:	PDMW-11P	PDMW-11R												
Sample Date:	10/28/1997	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/12/2001	2/6/2002	9/12/2002	2/5/2003		6/24/2003	1/29/2004	7/22/2004	3/7/2006
Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
Sample ID:	PDMW-11P_10/28/1997	PDMW-11R_2/24/2000	PDMW-11R_5/16/2000	PDMW-11R_8/22/2000	PDMW-11R_1/10/2001	PDMW-11R_7/12/2001	PDMW-11R_2/6/2002	PDMW-11R_9/12/2002	PDMW-11R_2/5/2003	PDMW-11R_DUP_2/5/2003	PDMW-11R_6/24/2003	PDMW-11R_1/29/2004	PDMW-11R_7/22/2004	PDMW-11R_3/7/2006
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
ACENAPHTHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
ACENAPHTHYLENE	1 U	1 U	1 U	1 U	1 U	1	***5.8***	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
BENZO(A)ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
BENZO(A)PYRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
BENZO(B)FLUORANTHENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
BENZO(G,H,I)PERYLENE	0.5 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
BENZO(K)FLUORANTHENE	0.5 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
CHRYSENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
DIBENZO(A,H)ANTHRACENE	1 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
FLUORENE	0.5 U	0.5 U	0.63	1	0.5 U	0.55	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
INDENO(1,2,3-CD)PYRENE	0.5 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
NAPHTHALENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
PHENANTHRENE	0.2 U	0.2 U	0.2 U	***0.34***	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.23	0.2 U	0.2 U	0.19 U
TOTAL PAHs	ND	ND	0.63	1.34	ND	1.55	5.8	ND	ND	ND	0.23	ND	ND	ND
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
p/m-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
XYLENES (TOTAL)	2 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC (total)	0.01 U	0.01 U	0.015	***0.02***	0.01 U	***0.022***	0.018	0.016	0.011	0.01 U	0.016	0.01 U	0.012	0.012
BERYLLIUM (total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BORON (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CALCIUM METAL (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (total)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
LEAD (total)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
MAGNESIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY (total)	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL (total)	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
POTASSIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC (total)	0.02 U	0.14	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
ARSENIC (dissolved)	NA	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA
BERYLLIUM (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (dissolved)	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LEAD (dissolved)	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY (dissolved)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL (dissolved)	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC (dissolved)	NA	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMMONIA AS N	NA	8.6	13	12	2.4	5	3.6	0.53	0.56	0.4	0.61	0.035	0.85	0.41
BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.
Bold and italic text indicates analytical result exceeds background value.
\# - Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl
ND - No constituents detected above the laboratory minimum detection limit.
U: Incidactes constituent was not detected above value shown.
J: Indicates constituent was detected at an estimated value.
UJ: Indicates constituent was not detected at an estimated value shown.
Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-12P																										
					Sample Date:	10/28/1997	8/9/1999	11/17/1999	2/23/2000	5/15/2000	8/22/2000	1/9/2001	7/12/2001	2/5/2002	9/12/2002	2/5/2003	6/27/2003	1/29/2004	7/23/2004	3/7/2006	4/1/2008	7/19/2008	10/9/2008	12/3/2009	6/18/2010	6/16/2011							
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal							
					Sample ID:	PDMW-12P_10/28/1997	PDMW-12P_8/9/1999	PDMW-12P_11/17/1999	PDMW-12P_2/23/2000	PDMW-12P_5/15/2000	PDMW-12P_8/22/2000	PDMW-12P_1/9/2001	PDMW-12P_7/12/2001	PDMW-12P_2/5/2002	PDMW-12P_9/12/2002	PDMW-12P_2/5/2003	PDMW-12P_6/27/2003	PDMW-12P_1/29/2004	PDMW-12P_7/23/2004	PDMW-12P_3/7/2006	PDMW-12P_4/1/2008	PDMW-12P_7/19/2008	PDMW-12P_10/9/2008	PDMW-12P_12/3/2009	PDMW-12P_6/18/2010	PDMW-12P_061611							
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result							
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***1.4***	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U*	0.19 U	NA							
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.76 U	0.38 U	NA							
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.24	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	PHENANTHRENE	0.22	0.2	510	ug/L	***0.22***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	3.9 U	0.19 U	0.19 U	NA							
	TOTAL PAHs	- -	- -	- -	ug/L	0.22	ND	ND	ND	ND	ND	ND	1.4	NA	ND	ND	ND	0.24	ND	ND	ND	ND	ND	ND	ND	NA							
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA							
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA							
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA							
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA							
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA							
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA							
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.018	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA							
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA							
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	***0.016***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U							
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA							
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.059	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.11	0.053	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA							
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	0.065	NA	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	AMMONIA AS N	15	30	30	mg/L	NA	3.2	3.6	0.66	2.1	8.6	0.15	1.7	NA	3.3	0.83	3.3	0.5	2.4	0.23	0.22	0.7	0.69	0.14	1.1	NA							
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and Italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11T, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-13P																												
Sample Date:						10/28/1997	8/9/1999	11/18/1999	2/25/2000	5/16/2000	8/22/2000	1/9/2001	7/16/2001	2/5/2002	9/11/2002		2/5/2003	6/26/2003	1/29/2004	7/22/2004	3/5/2006	4/2/2008	7/19/2008	10/9/2008	12/1/2009	6/18/2010	12/16/2010	6/14/2011	12/5/2011	12/11/2013	6/5/2014	11/5/2014	5/19/2015	11/11/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-13P_10/28/1997	PDMW-13P_8/9/1999	PDMW-13P_11/18/1999	PDMW-13P_2/25/2000	PDMW-13P_5/16/2000	PDMW-13P_8/22/2000	PDMW-13P_1/9/2001	PDMW-13P_7/16/2001	PDMW-13P_2/5/2002	PDMW-13P_9/11/2002	PDMW-13P (DUP)_9/11/2002	PDMW-13P_2/5/2003	PDMW-13P_6/26/2003	PDMW-13P_1/29/2004	PDMW-13P_7/22/2004	PDMW-13P_3/5/2006	PDMW-13P_4/2/2008	PDMW-13P_7/19/2008	PDMW-13P_10/9/2008	PDMW-13P_12/1/2009	PDMW-13P_6/18/2010	PDMW-13P_12/16/2010	PDMW-13P_061411	PDMW-13P-12052011	PDMW-13P_12/11/2013	PDMW-13P_060520 14	PDMW-13P_110520 14	PDMW-13P_051920 15	PDMW-13P_111120 15
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	--	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	***9.7 U^***	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	--	--	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	--	--	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	--	0.3	--	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	FLUORENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	--	0.4	--	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	1-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.78 U	0.38 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	2-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	PYRENE	0.5	1000	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.2 U	9.7 U	NA	NA	NA
	TOTAL PAHs	--	--	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	--	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA
	p/m-XYLENE	--	--	--	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	--	--	--	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA
	o-XYLENE	--	--	--	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	--	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	10 U	10 U	NA	NA	NA
	TOTAL BTEX	--	--	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.0137	0.018	0.01 U	0.01 U	0.01 U	0.015	0.01 U	0.011	NA	0.015	0.015	0.01	0.011	0.016	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	BERYLLIUM	--	0.004	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	--	0.005	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	--	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.0071	0.0063 U	0.005 U	0.005 U	0.015	***0.043***	0.012	NA	0.005 U	0.005 U	***0.084***	0.0085	***0.21***	0.011	0.005 U	0.005 U	***0.13***	0.014	0.01 U	0.01 U	0.013	***0.28***	0.013	***0.031***	***0.021***	***0.033***	0.01 U	0.011
	MAGNESIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	--	0.002	--	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0063	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.0429	0.021	0.02 U	0.02 U	0.02 U	0.02 U	0.054	0.02 U	NA	0.029	0.033	0.064	0.045	0.24	0.041	0.02 U	0.02 U	0.061	0.02 U	0.029	0.02 U	NA	NA	NA	0.047	0.02 U	0.02 U	0.02 U	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	--	0.004	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	--	0.005	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	--	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	***0.05***	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA
	MERCURY	--	0.002	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.021 U	0.022 U	NA	NA	0.051	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	5.5	3.7	5.9	4.2	4	0.92	5.6	NA	8.9	8.9	0.046	4.1	0.18	4.3	1.8	3.9	1.8	1.6	1.4	2.6	NA	1.1	1.9	1.7	1.9	2	2.7	2.7
	BICARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	--	10	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21	0.21	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	--	--	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	
	SULFATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA

Notes:

shaded cell indicates comparison standard used in data evaluation.

highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						PDMW-14T																PDMW-14TR											
					Location:																												
					Sample Date:	10/31/1997	8/10/1999	11/16/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/10/2001	9/13/2002		2/4/2003	6/24/2003	1/27/2004	7/23/2004	3/9/2006	10/7/2008	4/4/2008	7/20/2008		12/5/2009	3/23/2010	6/16/2010	9/14/2010		12/15/2010		6/17/2011	12/7/2011
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Dup	Normal	Dup	Normal	Normal
					Sample ID:	PDMW-14T_10/31/1997	PDMW-14T_8/10/1999	PDMW-14T_11/16/1999	PDMW-14T_2/24/2000	PDMW-14T_5/16/2000	PDMW-14T_8/22/2000	PDMW-14T_1/10/2001	PDMW-14T_7/10/2001	PDMW-14T_9/13/2002	PDMW-14T (DUP)_9/13/2002	PDMW-14T_2/4/2003	PDMW-14T_6/24/2003	PDMW-14T_1/27/2004	PDMW-14T_7/23/2004	PDMW-14T_3/9/2006	PDMW-14T_10/7/2008	PDMW-14TR_4/4/2008	PDMW-14TR_7/20/2008	PDMW-14TR DUP_7/20/2008	PDMW-14TR_12/5/2009	PDMW-14TR_3/23/2010	PDMW-14TR_6/16/2010	PDMW-14TR_9/14/2010	PDMW-14TRDUP_9/14/2010	PDMW-14TR_12/15/2010	PDMW-14TRDUP2_12/15/2010	PDMW-14TR_061711	PDMW-14TR_120720 11
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	380	270 D	330	240	210	440	520	450 D	290	220	290	310	300	130	83	93	97	110 J	67 J	58	45	24	5.9	7	45	93	57	110
	ACENAPHTHYLENE	1.4	1	510	ug/L	***170***	***80 D***	***98***	***24***	***52***	***100***	***100***	***20***	20 U	20 U	20 U	20 U	20 U	8 U	***2.9***	***3***	***2.1***	***2.6 J***	1.9 U	***1.2***	1.9 U	0.95 U	***4.5***	***1.9***	1.9 U	9.5 U	1.9 U	20 U
	ANTHRACENE	0.2	0.2	5100	ug/L	***32***	***15 D***	***17***	***10***	***13***	***24***	***48***	***25***	20 U	20 U	20 U	20 U	***21***	***40***	***15***	***14***	***11***	***19 J***	***8.8 J***	***2.6***	***3.4***	***1.6***	0.2 U	0.19 U	***3.9***	9.5 U	***5.6 J***	20 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	10 U	***0.21***	8 U	2 U	10 U	2 U	20 U	2 U	20 U	20 U	20 U	20 U	20 U	***8.1***	***2.8***	1.9 U	1.9 U	***4.5 J***	1.9 U	0.97 U	1.9 U	0.95 U	***0.57***	***0.52***	1.9 U	9.5 U	1.9 UJ	20 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	10 U	0.2 U	8 U	2 U	10 U	2 U	20 U	2 U	20 U	20 U	20 U	20 U	20 U	8 U	1 U	1.9 U	1.9 U	***2.6 J***	1.9 U	0.97 U	1.9 U	0.95 U	0.2	0.2	1.9 U	9.5 U	1.9 UJ	20 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	10 U	0.2 U	8 U	2 U	10 U	2 U	20 U	2 U	20 U	20 U	20 U	20 U	20 U	8 U	1 U	1.9 U	1.9 U	***2.5 J***	1.9 U	0.97 U	1.9 U	0.95 U	***0.29***	0.19	1.9 U	9.5 U	1.9 U	20 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	25 U	NA	20 U	NA	NA	NA	NA	NA	20 U	20 U	20 U	20 U	20 U	8 U	1 U	1.9 U	1.9 U	1.9 U	1.9 U	0.97 U	1.9 U	0.95 U	0.2 U	0.19 U	1.9 U	9.5 U	1.9 UJ	20 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	25 U	NA	8 U	NA	NA	NA	NA	NA	20 U	20 U	20 U	20 U	20 U	8 U	1.3	1.9 U	1.9 U	1.9 U	1.9 U	0.97 U	1.9 U	0.95 U	0.24	0.19	1.9 U	9.5 U	1.9 UJ	20 U
	CHRYSENE	0.2	0.2	65	ug/L	10 U	***0.31***	8 U	2 U	10 U	2 U	20 U	2 U	20 U	20 U	20 U	20 U	20 U	***8.6***	***2.7***	1.9 U	1.9 U	***5.5 J***	1.9 U	***1.1***	1.9 U	0.95 U	***0.65***	***0.62***	1.9 U	9.5 U	1.9 UJ	20 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	50 U	NA	8 U	NA	NA	NA	NA	NA	20 U	20 U	20 U	20 U	20 U	8 U	1 U	1.9 U	1.9 U	1.9 U	1.9 U	0.97 U	1.9 U	0.95 U	0.2 U	0.19 U	1.9 U	9.5 U	1.9 UJ	20 U
	FLUORANTHENE	0.5	1000	- -	ug/L	46	12	20 U	11	25 U	17	50 U	14	22	20 U	20 U	20 U	30	59	29	32	25	56 J	26 J	33	26	27	15	12	28	62	28	40
	FLUORENE	0.5	1000	- -	ug/L	260	160 D	200	110	120	210	260	270 D	180	130	170	170	170	120	68	92	85	120 J	68 J	38	40	29	0.31	1.1	49	99	49	80
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	25 U	NA	8 U	NA	NA	NA	NA	NA	20 U	20 U	20 U	20 U	20 U	8 U	1 U	1.9 U	1.9 U	1.9 U	1.9 U	0.97 U	1.9 U	0.95 U	0.2 U	0.19 U	1.9 U	9.5 U	1.9 UJ	20 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	250	NA	NA	NA	NA	NA	170	130	180	190	200	61	34	8.5	6.5	5.7 J	2.5 J	8.7	8	1.9 U	0.4 U	0.38 U	11	23	13	46
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	400	NA	NA	NA	NA	NA	22	20 U	20 U	20 U	27	100	3.2	6.3	2.8	4.6 J	1.9 U	0.97 U	1.9 U	0.95 U	0.2 U	0.19 U	3	9.7	3.2 J	39
	NAPHTHALENE	1	20	20	ug/L	***6200***	***2100 D***	***4200***	***2500 D***	***2100 D***	***3200***	***2900 D***	***3000 D***	***1500***	***1400***	***1600***	***1500***	***1000***	***540 *X***	***97***	***170***	***74***	5.4 J	11 J	17	***28***	0.95 U	0.2 U	0.19 U	***160***	***320***	***99***	***670***
	PHENANTHRENE	0.22	0.2	510	ug/L	***360***	***160 D***	***190***	***120 D***	***120***	***230***	***290***	***280 D***	***200***	***140***	***140***	***170***	***180***	***230***	***67***	***8.1***	***15***	***42 J***	***9.1 J***	***3.3***	***4.8***	0.95 U	0.2 U	0.19 U	***16***	***44***	***21***	***74***
	PYRENE	0.5	1000	- -	ug/L	26	5.8	20 U	5.2 J	25 U	10	50 U	5 U	20 U	20 U	20 U	20 U	20 U	33	14	20	17 J	36 J	14 J	16	16	9.8	10	8.2	16	33	19	25
	TOTAL PAHs	- -	- -	- -	ug/L	7474	2803.32	5685	3020.2	2615	4231	4118	4059	2384	2020	2380	2340	1928	1329.7	419.9	446.9	335.4	416.4	206.4	178.9	171.2	91.4	37.66	31.92	331.9	683.7	294.8	1084
VOCs	BENZENE	1	5	31.2	ug/L	***120***	***110***	***69***	***57***	***44***	***29***	***86***	***120***	***35***	***30***	***49***	***47 D***	***110 D***	***7.1***	3.2	3.4	3.2	1 U	1 U	1	NA	1 U	NA	NA	NA	NA	2	NA
	ETHYLBENZENE	1	700	- -	ug/L	28	33	25	20	22	19	30	29	12	9.4	8.9	9.4	25	5.2	5	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	40	15	31	34	18	37	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	25 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	30	35	56	50	14	34	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	24	26	12	15	11	4.5	23	31	6.8	5.8	5.6	5.6	20	4.6	1.2	1 U	1 U	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	250	70	50	87	84	32	71	54	48	40	54	43	54	12	4.3	3.6	5.4	2 U	2 U	3.7	NA	2 U	NA	NA	NA	NA	4	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	422	239	156	179	161	84.5	210	234	101.8	85.2	117.5	105	209	28.9	13.7	7	8.6	ND	ND	4.7	NA	ND	NA	NA	NA	NA	6	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.0108	0.013	0.01 U	0.01	0.01 U	0.013	0.01 U	0.01 U	0.016	0.014	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	NA	0.02 U	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.0057	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0057	***0.019***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	NA	NA	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.021	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.064	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	0.034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	***200***	***240***	***140***	***180***	***370***	***190***	***220***	***260***	***250***	***260***	***250***	***260***	***72***	***110***	***190***	***84***	5.5	6.4	***66***	NA	***56***	NA	NA	***67***	***61***	***41***	5.9
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-15T																												PDMW-16T													
Sample Date:						10/27/1997	8/9/1999	11/16/1999	2/25/2000	5/15/2000	8/21/2000	1/9/2001	7/10/2001	9/12/2002	2/5/2003	6/24/2003	1/27/2004	7/20/2004	3/5/2006		4/3/2008	7/19/2008	10/7/2008	12/4/2009	6/16/2010	12/16/2010	6/15/2011	12/5/2011		10/31/1997	8/10/1999	11/16/1999	2/24/2000	5/16/2000	8/21/2000	1/9/2001	7/10/2001	2/5/2002	9/12/2002	2/4/2003	6/24/2003	1/27/2004	7/20/2004					
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal					
Sample ID:						PDMW-15T_10/27/1997	PDMW-15T_8/9/1999	PDMW-15T_11/16/1999	PDMW-15T_2/25/2000	PDMW-15T_5/15/2000	PDMW-15T_8/21/2000	PDMW-15T_1/9/2001	PDMW-15T_7/10/2001	PDMW-15T_9/12/2002	PDMW-15T_2/5/2003	PDMW-15T_6/24/2003	PDMW-15T_1/27/2004	PDMW-15T_7/20/2004	PDMW-15T Filtered_3/5/2006	PDMW-15T Unfiltered_3/5/2006	PDMW-15T_4/3/2008	PDMW-15T_7/19/2008	PDMW-15T_10/7/2008	PDMW-15T_12/4/2009	PDMW-15T_6/16/2010	PDMW-15T_12/16/2010	PDMW-15T_061511	PDMW-15T-12052011	DUP-01-12052011	PDMW-16T_10/31/1997	PDMW-16T_8/10/1999	PDMW-16T_11/16/1999	PDMW-16T_2/24/2000	PDMW-16T_5/16/2000	PDMW-16T_8/21/2000	PDMW-16T_1/9/2001	PDMW-16T_7/10/2001	PDMW-16T_2/5/2002	PDMW-16T_9/12/2002	PDMW-16T_2/4/2003	PDMW-16T_6/24/2003	PDMW-16T_1/27/2004	PDMW-16T_7/20/2004					
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result					
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26	0.28	0.2 U	0.51	0.98 U	0.96 U	16	5.5	19 U	2.1	1.3	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	0.38	0.2 U	0.32	0.71					
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	***2.6***	1 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	***0.25***	0.2 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	***0.49 J***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	***0.78***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	8.7	3.1	19 U	1.9 U	0.7	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	1 U	0.2	0.2 U	0.25	0.2 U					
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	7.6 U	0.38 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	0.78	0.3	2.4	0.2 U					
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U					
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	0.26	0.2 U	0.2 U	0.2 U					
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	***0.21***	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.2 U	***0.41 J***	***0.6***	0.2 U	0.2 U	0.2 U	***0.22***	0.2 U	NA	1 U	0.2 U	0.2 U	***0.48***	0.2 U					
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.98 U	0.96 U	2 U	0.19 U	19 U	1.9 U	0.19 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	1 U	0.2 U	0.2 U	0.21	0.2 U					
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	0.28	0.21	0.51	ND	ND	24.7	8.6	ND	2.1	2	NA	NA	NA	NA	ND	1.68	0.6	ND	ND	ND	3.07	ND	NA	3.2	1.62	0.3	3.66	0.71					
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	***7.8***	***6.9***	***11***	3.9	1 U	***8.4***	***8.8***	***8.2***	NA	***9.1***	1.6	***15***	1 U	1 U					
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1.8	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U					
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA					
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1.2	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA					
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	2.2	1 U	1 U	1.6	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U					
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	12	1 U	1 U	1.2	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U					
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	22	6.9	11	8.5	ND	8.4	8.8	8.2	NA	9.1	1.6	15	ND	ND					
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	NA	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.013	0.01 U	***0.023***	NA	0.014	0.01 U	0.011	0.01 U	0.01 U					
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U					
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.011	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	***0.016***	NA	0.005 U	0.005 U	0.006	0.005 U	0.005 U					
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U					
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.13	0.034	0.02 U	0.028	0.02 U	0.02 U	0.052	0.02 U	0.02 U	0.027	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.023	0.02 U	NA	NA	NA	NA	0.02 U	0.021	0.02 U	0.078	0.06	0.02 U	0.12	0.051	NA	0.045	0.038	0.02 U	0.91	0.02 U					
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA					
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.08	0.02 U	NA	0.02 U	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.089	0.065	NA	0.11	NA	0.3	NA	NA	NA	NA	NA					
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	AMMONIA AS N	15	30	30	mg/L	NA	***61***	***60***	7.2	***71***	27	4.2	18	***97***	***61***	6.2	7	***74***	NA	***120***	***84***	***85***	***76***	***39***	***40***	***51***	***33***	16	15	NA	***710***	0.88	***110***	***440***	3.7	***130***	***560***	NA	***430***	***71***	***380***	12	***100***					
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.
Bold and italic text indicates analytical result exceeds background value.
- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drini
ND - No constituents detected above the laboratory minimum detection limit.
U: Incidactes constituent was not detected above value shown.
J: Indicates constituent was detected at an estimated value.
UJ: Indicates constituent was not detected at an estimated value shown.
Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						PDMW-17T																								PDMW-18T															
	Location:																																											
	Sample Date:					10/29/1997	8/9/1999	11/18/1999	2/25/2000	5/15/2000	8/21/2000	1/9/2001	7/12/2001	9/13/2002	2/4/2003	6/24/2003	1/29/2004	7/20/2004	3/6/2006	4/3/2008	7/20/2008	10/6/2008		12/4/2009	6/19/2010	12/14/2010	6/15/2011	12/7/2011	10/27/1997	8/9/1999	11/17/1999	2/25/2000	5/15/2000	8/21/2000	1/9/2001	7/10/2001	2/4/2002	9/12/2002	2/5/2003	6/25/2003	1/30/2004	7/21/2004			
	Sample Type:					Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal			
	Sample ID:					PDMW-17T_10/29/1997	PDMW-17T_8/9/1999	PDMW-17T_11/18/1999	PDMW-17T_2/25/2000	PDMW-17T_5/15/2000	PDMW-17T_8/21/2000	PDMW-17T_1/9/2001	PDMW-17T_7/12/2001	PDMW-17T_9/13/2002	PDMW-17T_2/4/2003	PDMW-17T_6/24/2003	PDMW-17T_1/29/2004	PDMW-17T_7/20/2004	PDMW-17T_3/6/2006	PDMW-17T_4/3/2008	PDMW-17T_7/20/2008	PDMW-17T_10/6/2008	PDMW-17T-DUP_10/6/2008	PDMW-17T_12/4/2009	PDMW-17T_6/19/2010	PDMW-17T_12/14/2010	PDMW-17T_061511	PDMW-17T_12/7/2011	PDMW-18T_10/27/1997	PDMW-18T_8/9/1999	PDMW-18T_11/17/1999	PDMW-18T_2/25/2000	PDMW-18T_5/15/2000	PDMW-18T_8/21/2000	PDMW-18T_1/9/2001	PDMW-18T_7/10/2001	PDMW-18T_2/4/2002	PDMW-18T_9/12/2002	PDMW-18T_2/5/2003	PDMW-18T_6/25/2003	PDMW-18T_1/30/2004	PDMW-18T_7/21/2004			
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result			
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1.3 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 J	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1.3 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1.3 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.26 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.66 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U			
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	1 U	ND	ND	ND	ND			
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA			
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA			
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U			
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	10 UJ	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U			
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U			
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.031	0.02 U	0.02 U	0.02 U	0.02 U	0.027	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.15	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.028 U	0.02 U	0.13	0.029	0.02 U	0.023	0.02 U	0.02 U	0.02 U	0.11	0.022		
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.03	NA	NA	0.028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.02 U	NA	0.13	0.037	NA	0.031	NA	NA	NA	NA	NA			
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	AMMONIA AS N	15	30	30	mg/L	***60***	***73***	***54***	29	3.7	***65***	11	***39***	***41***	29	***38***	30	***53***	26	***34***	***49***	***31***	***32***	7.1	30 J	***80***	***55***	12	NA	9.1	29	4.8	6.4	1.2	3.4	5	0.83	2.7	2.2	2.6	2	0.49			
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, F
installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32
respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-19P																										
Sample Date:						10/27/1997	8/9/1999	11/17/1999	2/25/2000	5/15/2000	8/21/2000	1/9/2001	7/12/2001	9/13/2002	2/5/2003	6/24/2003	1/29/2004	7/21/2004	3/7/2006	4/4/2008		7/19/2008	10/8/2008	12/5/2009	6/19/2010	6/17/2011	12/13/2013		6/4/2014	11/3/2014	5/20/2015	11/12/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
Sample ID:						PDMW-19P_10/27/1997	PDMW-19P_8/9/1999	PDMW-19P_11/17/1999	PDMW-19P_2/25/2000	PDMW-19P_5/15/2000	PDMW-19P_8/21/2000	PDMW-19P_1/9/2001	PDMW-19P_7/12/2001	PDMW-19P_9/13/2002	PDMW-19P_2/5/2003	PDMW-19P_6/24/2003	PDMW-19P_1/29/2004	PDMW-19P_7/21/2004	PDMW-19P_3/7/2006	PDMW-19P_4/4/2008	PDMW-19P DUP_4/4/2008	PDMW-19P_7/19/2008	PDMW-19P_10/8/2008	PDMW-19P_12/5/2009	PDMW-19P_6/19/2010	PDMW-19P_061711	PDMW-19P_12/13/2013	DUP-3_12/13/2013	PDMW-19P_060414	PDMW-19P_110320 14	PDMW-19P_052020 15	PDMW-19P_111220 15
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.27	0.41	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	9.5 U	9.6 U	9.8 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.41	ND	ND	ND	ND	NA	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	10 U	NA	10 U	10 U	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.14	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	5.3	12	2.4	6	9.6	4.1	5.9	3.2	3.6	5.1	1.9	5	3	2.8 J	1.7 J	2.2	5.8	1.8	4.9 J	3.9	4	4	5.6	4.5	4.7	4.9
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and Italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-20T																								
Sample Date:						10/29/1997	8/10/1999	11/17/1999	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/7/2002	9/10/2002	2/6/2003	6/26/2003	1/27/2004	7/21/2004	3/7/2006	4/1/2008	7/18/2008	10/8/2008		12/7/2009	6/19/2010	12/16/2010	6/16/2011	12/8/2011
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-20T_10/29/1997	PDMW-20T_8/10/1999	PDMW-20T_11/17/1999	PDMW-20T_2/23/2000	PDMW-20T_5/16/2000	PDMW-20T_8/22/2000	PDMW-20T_1/10/2001	PDMW-20T_7/16/2001	PDMW-20T_2/7/2002	PDMW-20T_9/10/2002	PDMW-20T_2/6/2003	PDMW-20T_6/26/2003	PDMW-20T_1/27/2004	PDMW-20T_7/21/2004	PDMW-20T_3/7/2006	PDMW-20T_4/1/2008	PDMW-20T_7/18/2008	PDMW-20T_10/8/2008	PDWM-20T-DUP_10/8/2008	PDMW-20T_12/7/2009	PDMW-20T_6/19/2010	PDMW-20T_12/16/2010	PDMW-20T-061611	PDMW-20T_120820 11
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 UJ	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	***8.7***	1 U	4	1.1	1 U	1.3	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1 U	3.2	2.3	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	10 U	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	8.7	ND	4	1.1	ND	1.3	ND	ND	1.2	ND	ND	ND	ND	ND	3.2	2.3	ND	ND	ND	ND	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.0102	***0.024***	0.01 U	0.013 U	0.015	0.013	0.016	***0.026***	0.018	***0.028***	***0.022***	***0.03***	***0.028***	0.01 U	0.013	0.014	0.018	***0.025***	***0.024***	0.02 U	***0.02***	***0.019***	***0.028***	***0.026***
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.011	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	***0.2***	0.078	0.073	***0.12***	0.04 U	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.0566	0.18	0.036	0.099	0.032	0.034	0.11	0.14	0.084	0.13	0.36	0.23	0.13	0.24	0.12	0.21	***2.8***	0.66	0.62	1.4	0.16	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	0.01	0.01 U	0.01 U	0.018	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.018	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.047	0.02 U	0.02 U	0.035	0.12	0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***1100***	***370***	***340***	***330***	***430***	***400***	6.9	***440***	1.3	3.1	***340***	***260***	***250***	***360***	***760***	***550***	***220***	***310***	***310***	***39***	***230***	***180***	***260***	***280***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-21T																															
					Sample Date:	10/29/1997	8/9/1999	11/17/1999	2/24/2000	5/16/2000	8/21/2000	1/9/2001	7/10/2001	2/4/2002	9/11/2002	2/6/2003	6/25/2003	1/27/2004	7/21/2004	3/6/2006	4/1/2008	7/18/2008	10/6/2008	12/4/2009	6/19/2010		12/16/2010	6/16/2011		12/5/2011						
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Dup	Normal						
					Sample ID:	PDMW-21T_10/29/1997	PDMW-21T_8/9/1999	PDMW-21T_11/17/1999	PDMW-21T_2/24/2000	PDMW-21T_5/16/2000	PDMW-21T_8/21/2000	PDMW-21T_1/9/2001	PDMW-21T_7/10/2001	PDMW-21T_2/4/2002	PDMW-21T_9/11/2002	PDMW-21T_2/6/2003	PDMW-21T_6/25/2003	PDMW-21T_1/27/2004	PDMW-21T_7/21/2004	PDMW-21T_3/6/2006	PDMW-21T_4/1/2008	PDMW-21T_7/18/2008	PDMW-21T_10/6/2008	PDMW-21T_12/4/2009	PDMW-21T_6/19/2010	PDMW-21TDUP_6/19/2010	PDMW-21T_12/16/2010	PDMW-21T-061611	DUP-2-061611	PDMW-21T-12052011						
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result						
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.76 U	0.19 UJ	0.38 UJ	NA	NA	NA	NA						
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 UJ	NA	NA	NA	NA						
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA						
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA						
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA						
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA						
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA						
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA						
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA						
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA						
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CADMIUM	- -	0.005	- -	mg/L	0.025 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA						
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.0075	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA						
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA						
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.046	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.022	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA						
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA						
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA						
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA						
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA						
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA						
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	AMMONIA AS N	15	30	30	mg/L	***570***	***270***	***240***	***280***	***280***	***270***	***180***	***220***	***160***	***220***	***38***	***160***	***92***	4.6	***170***	***130***	***140***	***150***	***130***	***110***	***110***	***120***	***150***	***150***	***85***						
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-22T																									PDMW-23R											
					Sample Date:	10/23/1997	8/10/1999	11/17/1999	2/24/2000	5/16/2000	8/22/2000	1/9/2001	7/16/2001	9/13/2002	2/5/2003	6/25/2003	1/27/2004	7/21/2004	3/5/2006	4/1/2008	7/18/2008	10/6/2008	12/2/2009	6/19/2010	12/16/2010	6/14/2011	12/5/2011	4/1/2008	7/19/2008	10/8/2008	12/2/2009		6/19/2010	12/15/2010	6/14/2011	12/7/2011	12/11/2013	11/5/2014	5/19/2015	11/11/2015
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-22T_10/23/1997	PDMW-22T_8/10/1999	PDMW-22T_11/17/1999	PDMW-22T_2/24/2000	PDMW-22T_5/16/2000	PDMW-22T_8/22/2000	PDMW-22T_1/9/2001	PDMW-22T_7/16/2001	PDMW-22T_9/13/2002	PDMW-22T_2/5/2003	PDMW-22T_6/25/2003	PDMW-22T_1/27/2004	PDMW-22T_7/21/2004	PDMW-22T_3/5/2006	PDMW-22T_4/1/2008	PDMW-22T_7/18/2008	PDMW-22T_10/6/2008	PDMW-22T_12/2/2009	PDMW-22T_6/19/2010	PDMW-22T_12/16/2010	PDMW-22T-061411	PDMW-22T-12052011	PDMW-23R_4/1/2008	PDMW-23R_7/19/2008	PDMW-23R_10/8/2008	PDMW-23R_12/2/2009	PDMW-23R-DUP_12/2/2009	PDMW-23R_6/19/2010	PDMW-23R_12/15/2010	PDMW-23R-061411	PDMW-23R_12/7/2011	PDMW-23R_12/11/2013	PDMW-23R_11/5/2014	PDMW-23R_05/19/2015	PDMW-23R_11112015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.8	17	2	27	6.9	16	11	94	37	16	3.8 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.76 U	0.76 U	3.8 UJ	3.8 U	0.4 U	0.38 U	9.2 U	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	17	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	***30***	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	***0.23***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	1 U	0.2 U	2 U	1 U	0.98 U	1.9 U	19 U	19 U	0.19 U	1.9 UJ	NA	NA	NA	1.9 U	1.9 U	19 U	0.19 U	0.19 U	1.9 UJ	1.9 U	0.2 U	0.19 U	9.2 U	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	17.23	ND	ND	ND	ND	ND	ND	ND	0.8	17	2	27	6.9	16	11	94	37	16	ND	NA	NA	NA	ND	ND	30	ND	ND	ND	ND	ND	ND	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA	NA	NA	1 U	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA	2 U	2 U	2 U	2 U	2 U	2 UJ	NA	NA	NA	2 U	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 UJ	NA	NA	NA	10 U	10 U	NA	NA	NA	10 UJ	NA	NA	NA	10 U	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.018	***0.03***	***0.038***	***0.034***	***0.03***	***0.042***	***0.025***	***0.03***	***0.02***	0.0092	0.02 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.012	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.0019	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.041	0.075	0.037	0.025	0.02 U	0.02 U	NA	NA	NA	0.02 U	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.02***	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	***46***	***48***	25	***36***	***32***	15	***39***	29	17	***31***	13	***39***	***34***	30	13	21	28	29 J	***31***	***32***	18	0.96	0.65	0.53	2.2	2.2	2.2 J	NA	1.5	NA	1.1	2.3	1.5	2.8
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.
Bold and italic text indicates analytical result exceeds background value.
- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink
ND - No constituents detected above the laboratory minimum detection limit.
U: Invidacates constituent was not detected above value shown.
J: Indicates constituent was detected at an estimated value.
UJ: Indicates constituent was not detected at an estimated value shown.
Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, F
installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32
respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	PDMW-23T															
					Sample Date:	10/23/1997	8/9/1999	11/17/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/5/2002	9/11/2002	2/5/2003	6/27/2003	1/29/2004	7/21/2004	3/7/2006	6/4/2014
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-23T_10/23/1997	PDMW-23T_8/9/1999	PDMW-23T_11/17/1999	PDMW-23T_2/24/2000	PDMW-23T_5/16/2000	PDMW-23T_8/22/2000	PDMW-23T_1/10/2001	PDMW-23T_7/16/2001	PDMW-23T_2/5/2002	PDMW-23T_9/11/2002	PDMW-23T_2/5/2003	PDMW-23T_6/27/2003	PDMW-23T_1/29/2004	PDMW-23T_7/21/2004	PDMW-23T_3/7/2006	PDMW-23R_06042014
						Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	10 U
PAHs	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOCs	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U
VOCs	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA
VOCs	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.0157	0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	***0.025***	0.013	0.013	0.01 U	0.01 U	0.01 U	0.02 U
Metals, Total	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.012	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Metals, Total	LEAD	0.007	0.015	0.015	mg/L	0.0051	0.006	0.005 U	0.0062	0.012	0.0091	0.005 U	0.005	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U
Metals, Total	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.13	0.1	2	mg/L	0.0519	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Metals, Total	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.96	2	31	mg/L	0.341	0.27	0.27	0.27	0.29	0.17	0.15	0.12	NA	0.02 U	0.03	0.1	0.021	0.02 U	0.14	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.0068	0.0076	0.0086	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	0.96	2	31	mg/L	NA	NA	0.28	0.3	0.29	0.17	0.13	0.12	0.18	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	15	30	30	mg/L	NA	0.43	22	6.7	2	0.92	3.8	0.54	NA	1.2	2.8	0.14	0.34	0.93	0.2	3.6
Miscellaneous	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.11
Miscellaneous	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Method Group	Analyte	PDMW-24T																				
	Sample Date:	10/23/1997	8/8/1999	11/18/1999	2/25/2000	5/16/2000	8/22/2000	1/9/2001	7/16/2001	9/11/2002	2/5/2003	6/26/2003	1/29/2004	7/21/2004	3/5/2006	4/1/2008	7/19/2008		10/9/2008	12/3/2009	6/18/2010	11/5/2014
	Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
	Sample ID:	PDMW-24T_10/23/1997	PDMW-24T_8/8/1999	PDMW-24T_11/18/1999	PDMW-24T_2/25/2000	PDMW-24T_5/16/2000	PDMW-24T_8/22/2000	PDMW-24T_1/9/2001	PDMW-24T_7/16/2001	PDMW-24T_9/11/2002	PDMW-24T_2/5/2003	PDMW-24T_6/26/2003	PDMW-24T_1/29/2004	PDMW-24T_7/21/2004	PDMW-24T_3/5/2006	PDMW-24T_4/1/2008	PDMW-24T_7/19/2008	PDMW-24T-DUP_7/19/2008	PDMW-24T_10/9/2008	PDMW-24T_12/3/2009	PDMW-24T_6/18/2010	PDMW-24T_11052014
		Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	ACENAPHTHYLENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	BENZO(A)ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	BENZO(A)PYRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	BENZO(B)FLUORANTHENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	BENZO(G,H,I)PERYLENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	BENZO(K)FLUORANTHENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	CHRYSENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	DIBENZO(A,H)ANTHRACENE	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	FLUORENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U*	0.19 U	NA
PAHs	INDENO(1,2,3-CD)PYRENE	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	1-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.76 U	0.38 U	NA
PAHs	2-METHYLNAPHTHALENE	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	NAPHTHALENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	PHENANTHRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	PYRENE	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA
PAHs	TOTAL PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
VOCs	BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
VOCs	ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
VOCs	p/m-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	METHYLENE CHLORIDE	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	o-XYLENE	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs	TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
VOCs	XYLENES (TOTAL)	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA
VOCs	METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	10 U	NA
VOCs	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Metals, Total	ARSENIC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA
Metals, Total	BERYLLIUM	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	BORON	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CADMIUM	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CALCIUM METAL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	CHROMIUM	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA
Metals, Total	LEAD	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U
Metals, Total	MAGNESIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	MERCURY	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	NICKEL	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA
Metals, Total	POTASSIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	SODIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Total	ZINC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA
Metals, Dissolved	ARSENIC	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	BERYLLIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CADMIUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	LEAD	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
Metals, Dissolved	MERCURY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	NICKEL	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	ZINC	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	AMMONIA AS N	NA	3.1	15	3.9	3.1	3.5	3.6	3.8	5.8	4.2	4.1	3.4	3.9	0.65	1.7	1.7	1.8	1.4	1.3	1.5	NA
Miscellaneous	BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, P installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-25T																						
					Sample Date:	10/23/1997	8/8/1999	11/17/1999	2/24/2000	5/15/2000	8/21/2000	1/9/2001	7/12/2001	9/12/2002	2/5/2003	6/26/2003	1/29/2004	7/22/2004		3/7/2006	4/4/2008	7/19/2008	10/9/2008	12/5/2009
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-25T_10/23/1997	PDMW-25T_8/8/1999	PDMW-25T_11/17/1999	PDMW-25T_2/24/2000	PDMW-25T_5/15/2000	PDMW-25T_8/21/2000	PDMW-25T_1/9/2001	PDMW-25T_7/12/2001	PDMW-25T_9/12/2002	PDMW-25T_2/5/2003	PDMW-25T_6/26/2003	PDMW-25T_1/29/2004	PDMW-25T_7/22/2004	PDMW-25T (DUP)_7/22/2004	PDMW-25T_3/7/2006	PDMW-25T_4/4/2008	PDMW-25T_7/19/2008	PDMW-25T_10/9/2008	PDMW-25T_12/5/2009
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.035	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	3.2	14	3.2	1.8	4	0.66	3.3	2.8	5.6	2.6	0.035	3.7	3.6	1.6	3.5	3.6	5.4	6.1
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.
Highlighted cell indicates analytical result exceeds comparison criteria.
Bold and italic text indicates analytical result exceeds background value.
- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink
ND - No constituents detected above the laboratory minimum detection limit.
U: Incidactes constituent was not detected above value shown.
J: Indicates constituent was detected at an estimated value.
UJ: Indicates constituent was not detected at an estimated value shown.
Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I
installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11T, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32
respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-26T																															
					Sample Date:	10/30/1997	8/9/1999	11/18/1999	2/25/2000	5/17/2000	8/22/2000	1/10/2001	7/16/2001	2/5/2002	9/10/2002	2/5/2003	6/26/2003		1/27/2004	7/20/2004	3/8/2006	4/2/2008	7/18/2008	10/5/2008	12/5/2009	6/18/2010		12/16/2010	6/16/2011	12/8/2011	12/11/2013	6/5/2014	11/6/2014		5/21/2015	11/12/2015	11/12/2015
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Dup	Normal
					Sample ID:	PDMW-26T_10/30/1997	PDMW-26T_8/9/1999	PDMW-26T_11/18/1999	PDMW-26T_2/25/2000	PDMW-26T_5/17/2000	PDMW-26T_8/22/2000	PDMW-26T_1/10/2001	PDMW-26T_7/16/2001	PDMW-26T_2/5/2002	PDMW-26T_9/10/2002	PDMW-26T_2/5/2003	PDMW-26T_6/26/2003	PDMW-26T (DUP)_6/26/2003	PDMW-26T_1/27/2004	PDMW-26T_7/20/2004	PDMW-26T_3/8/2006	PDMW-26T_4/2/2008	PDMW-26T_7/18/2008	PDMW-26T_10/5/2008	PDMW-26T_12/5/2009	PDMW-26T_6/18/2010	PDMW-26TDUP_6/18/2010	PDMW-26T_12/16/2010	PDMW-26T-061611	PDMW-26T_12082011	PDMW-26T_12/11/2013	PDMW-26T_06052014	PDMW-26T_11062014	DUP-03_11062014	PDMW-26T_05212015	DUP-01_11122015	PDMW-26T_11122015
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	**_9.8 U*_**	NA	NA	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
PAHs	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.8 U	0.38 U	0.38 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	1.9 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.8 U	NA	NA	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA
	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1.2	3	1.5	1 U	1.7	2.3	2.3	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA
VOCs	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	NA	NA	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	1.2	3	1.5	ND	1.7	2.3	2.3	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA
	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.016	0.016	0.013	***0.02***	***0.022***	***0.026***	0.017	NA	0.017	***0.019***	***0.021***	***0.019***	0.017	0.018	***0.02***	***0.029***	***0.027***	***0.024***	***0.034***	***0.045***	***0.047***	***0.025***	***0.034***	***0.025***	***0.021***	***0.025***	0.02 U	0.02 U	***0.025***	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.0022	0.01 U	NA	NA	NA	NA	NA
Metals, Total	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0043	0.04 U	NA	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.1	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA
	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	***0.025***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals, Dissolved	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***380***	***350***	***440***	***34***	***550***	***740***	***900***	***490***	NA	***540***	***580***	***510***	***320***	***610***	***650***	***710***	***570***	***580***	***560***	***570***	***500***	***500***	***520***	***570***	***550***	***530***	***600***	***470***	***490***	***550***	***600***	***600***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41	1.1	0.051	0.07	0.26	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-27P															PDMW-27R									
Sample Date:						11/4/1997	8/11/1999	11/16/1999	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/6/2002	9/12/2002	2/4/2003	6/26/2003	1/29/2004	7/20/2004	3/6/2006	4/3/2008	7/20/2008	10/6/2008	12/4/2009	6/18/2010	12/16/2010	6/15/2011		12/8/2011	
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Dup
Sample ID:						PDMW-27P_11/4/1997	PDMW-27P_8/11/1999	PDMW-27P_11/16/1999	PDMW-27P_2/23/2000	PDMW-27P_5/16/2000	PDMW-27P_8/22/2000	PDMW-27P_1/10/2001	PDMW-27P_7/16/2001	PDMW-27P_2/6/2002	PDMW-27P_9/12/2002	PDMW-27P_2/4/2003	PDMW-27P_6/26/2003	PDMW-27P_1/29/2004	PDMW-27P_7/20/2004	PDMW-27P Filtered_3/6/2006	PDMW-27P Unfiltered_3/6/2006	PDMW-27R_4/3/2008	PDMW-27R_7/20/2008	PDMW-27R_10/6/2008	PDMW-27R_12/4/2009	PDMW-27R_6/18/2010	PDMW-27R_12/16/2010	PDMW-27R_061511	DUP-3_061511	PDMW-27R_120820 11	DUP-03_120820 11
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1.4	1 U	1.2 J	1.9	1.5	1 U	1 U	1 U	1.1	0.83	0.54	0.52	0.2 U	0.19 U	0.53	0.74	0.67	0.84	0.72	0.64 J	NA	NA	NA	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	***5.5***	***3.9***	***4.6***	1 U	***2.1***	***5***	***1.7***	***2.6***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.28	0.19 U	0.19 U	NA	NA	NA	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	***0.34***	0.2 U	***0.37***	0.2 U	0.2 U	***0.38***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	0.5 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	1.6	1.3	0.85	0.58 J	0.5 U	0.59	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.41	0.42	0.5	0.37	0.46	NA	NA	NA	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1.8 J	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U	0.38 UJ	NA	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	1 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.54	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.22	0.19 U	0.19 UJ	NA	NA	NA	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	***0.78***	0.2 U	0.2 U	***0.28 J***	0.2 U	***0.31***	0.2 U	0.2 U	***0.22 J***	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	2.38	8.2	6.55	7	1.9	4.87	5	1.7	3.2	1.1	1.37	0.54	0.52	ND	ND	0.53	1.15	1.09	1.84	1.09	1.1	NA	NA	NA	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	***6.7***	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1.5	1 U	1 U	1.2	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	4	1 U	1 U	1.5	1 U	1 U	1.2	1 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	4	ND	1.1	3.8	ND	ND	1.2	ND	ND	ND	ND	ND	ND	7.9	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.013	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	***0.024***	0.018 U	0.018 U	0.018 U	0.018 U	0.018 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	***0.031***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.022 U	0.02 U	0.02 U	0.02 U	0.06	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.047	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***91***	14	***89***	***73***	***98***	***110***	***56***	***89***	***67***	***92***	26	21	0.03 U	***400***	NA	28	***170***	***160***	***140***	***150***	***96***	***98***	***170***	***160***	***150***	***140***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinking Water Regulations.

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-29D																										
Sample Date:						11/2/1997	8/10/1999	11/17/1999	2/23/2000	5/16/2000	8/21/2000	1/9/2001	7/11/2001	2/6/2002	9/10/2002	2/6/2003		6/26/2003	1/27/2004	7/20/2004	3/8/2006	4/2/2008	7/18/2008	10/5/2008	12/5/2009	6/18/2010	12/16/2010	6/15/2011	12/6/2011	12/11/2013	6/3/2014	11/6/2014	5/21/2015
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-29D_112/1997	PDMW-29D_8/10/1999	PDMW-29D_11/17/1999	PDMW-29D_2/23/2000	PDMW-29D_5/16/2000	PDMW-29D_8/21/2000	PDMW-29D_1/9/2001	PDMW-29D_7/11/2001	PDMW-29D_2/6/2002	PDMW-29D_9/10/2002	PDMW-29D_2/6/2003	PDMW-29D (DUP)_2/6/2003	PDMW-29D_6/26/2003	PDMW-29D_1/27/2004	PDMW-29D_7/20/2004	PDMW-29D_3/8/2006	PDMW-29D_4/2/2008	PDMW-29D_7/18/2008	PDMW-29D_10/5/2008	PDMW-29D_12/5/2009	PDMW-29D_6/18/2010	PDMW-29D_12/16/2010	PDMW-29D_061511	PDMW-29D_12/6/2011	PDMW-29D_12/11/2013	PDMW-29D_060320 14	PDMW-29D_11/6/2014	PDMW-29D_052120 15
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.75 U	0.38 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	9.1 U	9.7 U	NA	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3 U	1 U	1 U	1 U	1.3 U	NA	NA	NA	1 U	1 U	NA	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	NA	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	10 U	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	NA	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.0156	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U	NA	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.01	0.02 U	NA	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	2	10	11	11	12	12	11	11	7.5	0.31	12	13	11	11	0.073	6.8	6.2	8.7	3.9	5.5	**580**	11	7.5	9.9	8.1	11	10	11
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-28D															
Sample Date:						11/2/1997	11/8/1997	8/10/1999	11/18/1999	2/23/2000	5/15/2000	8/21/2000	1/9/2001	7/10/2001	9/13/2002	2/4/2003	6/24/2003	1/26/2004	7/21/2004	3/9/2006	
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	
Sample ID:						PDMW-28D_11/2/1997	PDMW-28D_11/8/1997	PDMW-28D_8/10/1999	PDMW-28D_11/18/1999	PDMW-28D_2/23/2000	PDMW-28D_5/15/2000	PDMW-28D_8/21/2000	PDMW-28D_1/9/2001	PDMW-28D_7/10/2001	PDMW-28D_9/13/2002	PDMW-28D_2/4/2003	PDMW-28D_6/24/2003	PDMW-28D_1/26/2004	PDMW-28D_7/21/2004	PDMW-28D Filtered_3/9/2006	PDMW-28D Unfiltered_3/9/2006
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	3.4	0.19 U	0.19 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	2	0.19 U	0.19 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	2	0.19 U	0.19 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	3.2	0.19 U	0.19 U
	NAPHTHALENE	1	20	20	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	***35***	0.19 U	0.19 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	***3.4***	0.19 U	0.19 U
	PYRENE	0.5	1000	- -	ug/L	0.5 U	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.8 U	0.19 U	0.19 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	2.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	NA	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
	TOTAL BTEX	- -	- -	- -	ug/L	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.0385	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA
	ZINC	0.96	2	31	mg/L	NA	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	0.74	NA	16	19	14	17	16	17	17	19	18	12	21	22	NA	15
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Location:	PDMW-30P															PDMW-30R						PDMW-31P		
Sample Date:	11/5/1997	5/16/2000	1/10/2001	9/12/2002	2/6/2003	6/26/2003	1/30/2004	3/8/2006	4/4/2008	7/22/2008	10/9/2008	12/3/2009	12/11/2013	11/3/2014	5/20/2015	6/15/2010	12/14/2010	6/14/2011	12/21/2011		6/3/2014	11/6/1997	8/10/1999	11/18/1999
Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal
Sample ID:	PDMW-30P_11/5/1997	PDMW-30P_5/16/2000	PDMW-30P_1/10/2001	PDMW-30P_9/12/2002	PDMW-30P_2/6/2003	PDMW-30P_6/26/2003	PDMW-30P_1/30/2004	PDMW-30P_3/8/2006	PDMW-30P_4/4/2008	PDMW-30P_7/22/2008	PDMW-30P_10/9/2008	PDMW-30P_12/3/2009	PDMW-30P_12/11/2013	PDMW-30P_11032014	PDMW-30P_05202015	PDMW-30R_6/15/2010	PDMW-30R_12/14/2010	PDMW-30R-061411	PDMW-30R_12212011	DUP-04_12212011	PDMW-30R_06032014	PDMW-31P_11/6/1997	PDMW-31P_8/10/1999	PDMW-31P_11/18/1999
Analyte	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
ACENAPHTHENE	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	1 U	1 U	1 U
ACENAPHTHYLENE	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	1 U	1 U	***5***
ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	0.2 U
BENZO(A)ANTHRACENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	0.2 U
BENZO(A)PYRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	0.2 U
BENZO(B)FLUORANTHENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	0.2 U
BENZO(G,H,I)PERYLENE	0.5 U	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 UJ	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	NA	NA
BENZO(K)FLUORANTHENE	0.5 U	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	NA	NA
CHRYSENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	0.2 U
DIBENZO(A,H)ANTHRACENE	1 U	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	1 U	NA	NA
FLUORANTHENE	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	0.5 U	0.5 U
FLUORENE	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U*	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	0.5 U	0.5 U
INDENO(1,2,3-CD)PYRENE	0.5 U	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	NA	NA
1-METHYLNAPHTHALENE	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.75 U	9.5 U	NA	NA	0.38 U	NA	NA	NA	NA	9.8 U	NA	NA	NA
2-METHYLNAPHTHALENE	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	NA	NA	NA
NAPHTHALENE	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	1 U	1 U	1 U
PHENANTHRENE	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.2 U	0.2 U	***0.69***
PYRENE	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.2 U	0.19 U	9.5 U	NA	NA	0.19 U	NA	NA	NA	NA	9.8 U	0.5 U	0.5 U	0.5 U
TOTAL PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	ND	ND	ND	5.69
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U
p/m-XYLENE	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U
METHYLENE CHLORIDE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA
o-XYLENE	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U
XYLENES (TOTAL)	2 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	2 U	NA	NA	NA	NA	2 U	2 U	1 U	1 U
METHYL TERT BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	NA	NA	NA	NA	ND	ND	ND	ND
ARSENIC (Total)	0.0131	0.018	0.01 U	0.014	0.011	***0.11***	0.012	0.01 U	0.01	***0.035***	0.01 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.018 U	0.018 U	0.018 U	0.018 U	0.02 U	***0.111***	***0.11***	***0.16***
BERYLLIUM (Total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
BORON (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (Total)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
CALCIUM METAL (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (Total)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U
LEAD (Total)	0.005 U	0.007	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.005 U	0.005 U	0.005 U
MAGNESIUM (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MERCURY (Total)	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA
NICKEL (Total)	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.0036	NA	NA	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U
POTASSIUM (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SODIUM (Total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ZINC (Total)	0.0744	0.049	0.15	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.12	0.042	0.087	0.036	0.02 U	NA	NA	0.02 U	NA	NA	NA	NA	0.02 U	0.0576	0.065	0.18
ARSENIC (Dissolved)	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
BERYLLIUM (Dissolved)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CADMIUM (Dissolved)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM (Dissolved)	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
LEAD (Dissolved)	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
MERCURY (Dissolved)	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NICKEL (Dissolved)	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U
ZINC (Dissolved)	0.0522	0.02 U	0.14	NA	NA	NA	NA	NA	NA	0.02 U	0.089	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09
ALKALINITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ALKALINITY, TOTAL (AS CACO3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AMMONIA AS N	0.037	2.4	0.29	0.27	0.045	0.63	0.11	0.35	0.49	0.54	0.31	0.31	1.7	2.2	2	0.69	NA	1.5	NA	NA	1.6	6.8	30	7.9
BICARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CARBONATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CONDUCTIVITY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NITRATE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA
NITRITE (AS N)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFATE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SOLIDS, TOTAL DISSOLVED	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-DICHLOROBENZENE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, P
installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32
respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						PDMW-31R													PDMW-31R2										PDMW-32P		
					Location:																									
					Sample Date:	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/6/2002	9/12/2002	2/7/2003	6/26/2003	1/29/2004	7/22/2004	3/8/2006		4/2/2008	7/21/2008		10/8/2008	12/4/2009	6/16/2010	12/15/2010	6/15/2011	12/7/2011	11/5/1997	8/9/1999	11/18/1999
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-31R_2/23/2000	PDMW-31R_5/16/2000	PDMW-31R_8/22/2000	PDMW-31R_1/10/2001	PDMW-31R_7/16/2001	PDMW-31R_2/6/2002	PDMW-31R_9/12/2002	PDMW-31R_2/7/2003	PDMW-31R_6/26/2003	PDMW-31R_1/29/2004	PDMW-31R_7/22/2004	PDMW-31R Filtered_3/8/2006	PDMW-31R Unfiltered_3/8/2006	PDMW-31R2_4/2/2008	PDMW-31R2_7/21/2008	PDMW-31R2 DUP_7/21/2008	PDMW-31R2_10/8/2008	PDMW-31R2_12/4/2009	PDMW-31R2_6/16/2010	PDMW-31R2_12/15/2010	PDMW-31R2-061511	PDMW-31R2_12072011	PDMW-32P_11/5/1997	PDMW-32P_8/9/1999	PDMW-32P_11/18/1999
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	1 U	1 U	1 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	1 U	1 U	1 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	1 U	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	0.5 U	0.5 U
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	0.5 U	0.5 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.75 U	0.38 U	NA	NA	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	1 U	1 U	1 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.2 U	0.2 U	0.2 U
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	0.5 U	0.5 U	0.5 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA
	o-XYLENE	- -	- -	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	1 U	1 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	***0.15***	***0.18***	***0.25***	***0.14***	***0.23***	***0.12***	***0.17***	***0.19***	***0.2***	***0.081***	***0.12***	***0.072***	***0.072***	0.012	***0.019***	***0.019***	0.01 U	0.02 U	0.02 U	0.036 U	0.018 U	0.018 U	0.01 U	0.01 U	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	0.005 U	0.005 U	0.0067 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.0472	0.04 U	0.049
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.077	0.062	0.096	0.09	0.11	0.088	0.072	0.055	0.058	0.081	0.034	0.023	0.023	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.342	0.17	0.35
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	0.018	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	***0.072***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.048
	ZINC	0.96	2	31	mg/L	0.069	0.045	0.086	0.077	0.083	0.076	NA	NA	NA	NA	NA	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	3.3	4.3	6.4	4	6.7	11	13	7.6	5.4	3	9.5	NA	***32***	12	14	14	15	8.5	16	18	18	13	1.4	4.4	8
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-32R																					PDMW-33R												PDMW-33R2														PDMW-33T
Sample Date:						2/23/2000	5/16/2000	8/22/2000	1/9/2001	7/16/2001	2/5/2002	9/12/2002	2/6/2003	6/26/2003	1/30/2004	7/22/2004	3/8/2006	4/4/2008	7/22/2008	10/9/2008	12/7/2009	6/19/2010	6/16/2011	12/12/2013	6/4/2014	11/6/2014	5/19/2015	11/11/2015	9/10/2002	2/4/2003	6/25/2003	1/29/2004	7/22/2004	3/8/2006	4/4/2008	7/21/2008	10/9/2008	12/5/2009	6/17/2010	6/14/2011		12/11/2013	6/4/2014	11/4/2014	5/20/2015	11/11/2015	11/5/1997
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-32R_2/23/2000	PDMW-32R_5/16/2000	PDMW-32R_8/22/2000	PDMW-32R_1/9/2001	PDMW-32R_7/16/2001	PDMW-32R_2/5/2002	PDMW-32R_9/12/2002	PDMW-32R_2/6/2003	PDMW-32R_6/26/2003	PDMW-32R_1/30/2004	PDMW-32R_7/22/2004	PDMW-32R_3/8/2006	PDMW-32R_4/4/2008	PDMW-32R_7/22/2008	PDMW-32R_10/9/2008	PDMW-32R_12/7/2009	PDMW-32R_6/19/2010	PDMW-32R-061611	PDMW-32R_12/12/2013	PDMW-32R_6/4/2014	PDMW-32R_11062014	PDMW-32R_051920 15	PDMW-32R_111120 15	PDMW-33R_9/10/2002	PDMW-33R_2/4/2003	PDMW-33R_6/25/2003	PDMW-33R_1/29/2004	PDMW-33R_7/22/2004	PDMW-33R_3/8/2006	PDMW-33R2_4/4/2008	PDMW-33R2_7/21/2008	PDMW-33R2_10/9/2008	PDMW-33R2_12/5/2009	PDMW-33R2_6/17/2010	PDMW-33R2-061411	Dup-4-061411	PDMW-33R2_12/11/2013	PDMW-33R2_06/042014	PDMW-33R2_11042014	PDMW-33R2_052052015	PDMW-33R2_111120 15	PDMW-33T_11/5/1997
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.28	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	1 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	1 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 UJ	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	1 U
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.76 U	0.38 UJ	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.76 U	0.38 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 UJ	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	1 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.2 U
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	9.8 U	9.9 U	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U	NA	NA	9.5 U	9.7 U	NA	NA	NA	0.5 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	NA	NA	NA	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	NA	NA	NA	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	NA	NA	NA	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	NA	NA	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	2 U	2 U	NA	NA	NA	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	10 U	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	0.0063	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.039	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.013	0.0079	0.005 U	***0.13***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	***0.023***	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U
	NICKEL	0.13	0.1	2	mg/L	***0.12***	0.092	0.04 U	***0.13***	0.04 U	NA	***0.17***	0.09	0.059	0.048	0.04 U	0.057	0.057	0.04 U	0.04 U	0.041	0.04 U	NA	0.044	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	0.0043	0.04 U	NA	NA	NA	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.74	0.61	0.027	0.96	0.16	NA	***2.1***	0.63	0.47	0.63	0.39	0.45	0.7	0.2	0.23	0.49	0.02 U	NA	0.37	0.031	0.21	0.11	0.12	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	0.02 U	0.02 U	NA	NA	NA	0.0736
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	***0.13***	0.087	NA	***0.13***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.79	0.58	0.025	0.87	0.19	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	0.31	6.1	13	1.2	***42***	NA	0.64	1.5	1.3	0.83	6.5	0.12	0.23 U	0.73	3.6	0.23	0.05	2.2	6.6	11	7	0.7	1.3	11	8.7	8.2	5.2	14	1.9	14	19	13	18	8.1	17 J	25 J	9.6	16	20	14	15	0.38
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	0.05 U	0.05 U	0.05 U	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinl

ND - No constituents detected above the laboratory minimum detection limit.

U: Indicates constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

					Location:	PDMW-34T															PDMW-35P												
					Sample Date:	11/6/1997	8/9/1999	11/17/1999	2/22/2000	5/15/2000	8/22/2000	1/10/2001	7/11/2001	2/6/2002	9/12/2002	10/9/2002	2/3/2003	6/27/2003	1/29/2004	7/23/2004	9/11/2002	2/6/2003	6/26/2003	1/30/2004	7/21/2004	3/9/2006		4/3/2008	7/19/2008	10/7/2008	12/7/2009	6/19/2010	6/15/2011
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-34T_11/6/1997	PDMW-34T_8/9/1999	PDMW-34T_11/17/1999	PDMW-34T_2/22/2000	PDMW-34T_5/15/2000	PDMW-34T_8/22/2000	PDMW-34T_1/10/2001	PDMW-34T_7/11/2001	PDMW-34T_2/6/2002	PDMW-34T_9/12/2002	PDMW-34T_10/9/2002	PDMW-34T_2/3/2003	PDMW-34T_6/27/2003	PDMW-34T_1/29/2004	PDMW-34T_7/23/2004	PDMW-35P_9/11/2002	PDMW-35P_2/6/2003	PDMW-35P_6/26/2003	PDMW-35P_1/30/2004	PDMW-35P_7/21/2004	PDMW-35P Filtered_3/9/2006	PDMW-35P Unfiltered_3/9/2006	PDMW-35P_4/3/2008	PDMW-35P_7/19/2008	PDMW-35P_10/7/2008	PDMW-35P_12/7/2009	PDMW-35P_6/19/2010	PDMW-35P-061511
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.75 U	0.38 UJ	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	0.2 U	0.21 U	0.26 U	0.19 U	0.19 U	0.19 U	0.19 UJ	NA
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U	1 U	1 UJ	NA
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1.5 U	1 U	1 U	1 U	1 UJ	NA
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	2 U	2 U	2 U	2 U	2 U	2 UJ	NA
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 UJ	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	NA
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	***0.026***	0.017 U	***0.019***	***0.021***	***0.031***	***0.02***	***0.037***	***0.028***	***0.038***	0.01 U	***0.022***	***0.037***	***0.028***	***0.049***	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	0.01 U	0.02 U	0.02 U	NA
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.018	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	***0.16***	0.014	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	1.9	0.046	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.025	0.02 U	0.02 U	0.02 U	0.029	0.02 U	0.02 U	0.021	0.02 U	0.02 U	NA
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	0.01 U	0.01 U	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	0.04 U	0.04 U	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	NA	NA	0.02 U	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	0.02 U	0.02 U	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	1.7	2.6	2.4	2.4	2.8	3.4	2	3.7	3.7	4.3	NA	3.6	3.4	3.5	5.2	26	7.9	5.5	5.2	8.4	NA	1.9	7.2	6.7	3.9	2.8	3.2 J	3.3
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, F
installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32
respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-36P																		PDMW-37P																		PDMW-38P											
Sample Date:						9/12/2002	10/9/2002	2/5/2003	6/24/2003	1/27/2004	7/21/2004	3/8/2006	4/2/2008	7/22/2008	10/7/2008		12/3/2009	6/15/2010	12/14/2010	6/14/2011		12/8/2011	9/13/2002	10/9/2002	2/5/2003	6/26/2003	1/29/2004	7/22/2004	3/8/2006	4/2/2008	7/22/2008		10/7/2008	12/2/2009	6/16/2010	6/14/2011		9/12/2002	2/5/2003	6/24/2003	1/27/2004	7/21/2004	3/8/2006	4/4/2008	7/22/2008	10/7/2008	12/2/2009		
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Sample ID:						PDMW-36P_9/12/2002	PDMW-36P_10/9/2002	PDMW-36P_2/5/2003	PDMW-36P_6/24/2003	PDMW-36P_1/27/2004	PDMW-36P_7/21/2004	PDMW-36P_3/8/2006	PDMW-36P_4/2/2008	PDMW-36P_7/22/2008	PDMW-36P_10/7/2008	PDMW-36P-DUP_10/7/2008	PDMW-36_12/3/2009	PDMW-36P_6/15/2010	PDMW-36P_12/14/2010	PDMW-36P-061411	PDMW-36P-061411FF	PDMW-36P_12/8/2011	PDMW-37P_9/13/2002	PDMW-37P_10/9/2002	PDMW-37P_2/5/2003	PDMW-37P_6/26/2003	PDMW-37P_1/29/2004	PDMW-37P_7/22/2004	PDMW-37P_3/8/2006	PDMW-37P_4/2/2008	PDMW-37P_7/22/2008	PDMW-37P DUP_7/22/2008	PDMW-37P_10/7/2008	PDMW-37P_12/2/2009	PDMW-37P_6/16/2010	PDMW-37P-061411	PDMW-38P_9/12/2002	PDMW-38P_2/5/2003	PDMW-38P_6/24/2003	PDMW-38P_1/27/2004	PDMW-38P_7/21/2004	PDMW-38P_3/8/2006	PDMW-38P_4/4/2008	PDMW-38P_7/22/2008	PDMW-38P_10/7/2008	PDMW-38P_12/2/2009		
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.25	0.2	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	ACENAPHTHYLENE	1.4	1	510	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 UJ	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.19 U		
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	FLUORANTHENE	0.5	1000	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	FLUORENE	0.5	1000	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U*	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.75 U	0.38 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.75 U	0.38 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.75 U		
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	NAPHTHALENE	1	20	20	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 UJ	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	PYRENE	0.5	1000	- -	ug/L	0.2 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	0.19 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U		
	TOTAL PAHs	- -	- -	- -	ug/L	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	0.25	0.2	ND	ND	ND	ND	ND	ND	ND	ND		
VOCs	BENZENE	1	5	31.2	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
	ETHYLBENZENE	1	700	- -	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	TOLUENE	1	1000	1900	ug/L	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	NA	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	65	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA		
	TOTAL BTEX	- -	- -	- -	ug/L	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	***0.064***	0.01 U	0.013	0.018	0.013	0.018	0.01 U	0.01	0.01 U	***0.032***	***0.03***	0.02 U	0.02 U	0.018 U	0.072 U	NA	0.018 U	***0.057***	***0.032***	***0.036***	***0.028***	***0.031***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.018 U	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U		
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.039	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U		
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	NA	***0.2***	NA	0.005 U	0.0067	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U		
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	NICKEL	0.13	0.1	2	mg/L	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U		
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	ZINC	0.96	2	31	mg/L	0.095	NA	0.02 U	0.065	0.057	0.02 U	0.02 U	0.038	0.02 U	0.053	0.06	0.048	0.02 U	NA	NA	NA	NA	0.22	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.045	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U		
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.021***	NA	NA	0.072 U	0.018 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	AMMONIA AS N	15	30	30	mg/L	12	NA	6.4	3.8	4.8	9.2	3.9	7.5	3.7	6.3	6.4	3	6.8	NA	NA	NA	NA	16	NA	21	15	19	7.4	1.1	1.9	7.9	8.1	6.8	0.67	8.5	NA	15	17	10	13	11	6.6	8.6	13	13	9.6		
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						PDMW-39					PDMW-40P						PDMW-40R									PDMW-41					PDMW-42							PDMW-43							PDMW-45					
					Sample Date:	9/11/2002	2/7/2003	6/26/2003	1/30/2004	7/22/2004	9/10/2002	2/5/2003	6/24/2003	1/27/2004	7/20/2004	3/8/2006	4/3/2008	7/20/2008	10/7/2008	12/5/2009	6/17/2010	12/15/2010	6/16/2011	12/7/2011	11/5/2014	2/4/2003	6/25/2003	1/27/2004	7/21/2004	3/8/2006	9/13/2002	2/3/2003	6/24/2003	1/27/2004	7/21/2004	3/9/2006		9/13/2002	2/3/2003	6/24/2003	1/27/2004	7/20/2004	3/8/2006	11/14/2002	2/7/2003	6/27/2003	1/29/2004	7/22/2004	4/3/2006
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	PDMW-39_9/11/2002	PDMW-39_2/7/2003	PDMW-39_6/26/2003	PDMW-39_1/30/2004	PDMW-39_7/22/2004	PDMW-40P_9/10/2002	PDMW-40P_2/5/2003	PDMW-40P_6/24/2003	PDMW-40P_1/27/2004	PDMW-40P_7/20/2004	PDMW-40P_3/8/2006	PDMW-40R_4/3/2008	PDMW-40R_7/20/2008	PDMW-40R_10/7/2008	PDMW-40R_12/5/2009	PDMW-40R_6/17/2010	PDMW-40R_12/15/2010	PDMW-40R-061611	PDMW-40R_12/7/2011	PDMW-40R_11/5/2014	PDMW-41_2/4/2003	PDMW-41_6/25/2003	PDMW-41_1/27/2004	PDMW-41_7/21/2004	PDMW-41_3/8/2006	PDMW-42_9/13/2002	PDMW-42_2/3/2003	PDMW-42_6/24/2003	PDMW-42_1/27/2004	PDMW-42_7/21/2004	PDMW-42_3/9/2006	PDMW-42 (DUP)_3/9/2006	PDMW-43_9/13/2002	PDMW-43_2/3/2003	PDMW-43_6/24/2003	PDMW-43_1/27/2004	PDMW-43_7/20/2004	PDMW-43_3/8/2006	PDMW-45_11/14/20 02	PDMW-45_2/7/2003	PDMW-45_6/27/200 3	PDMW-45_1/29/200 4	PDMW-45_7/22/200 4	PDMW-45_4/3/2006
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	3.8	0.38	0.83 U	0.2 U	81	2.9	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	4.4	5.6	4.6	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	140	91	54	20	31	57	28	340	110	100	0.2 U	89	280	NA	0.2 U	0.2 U	0.2 U	2	0.19 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	***2.1***	1	8 U	0.94 U	***5***	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	ANTHRACENE	0.2	0.2	5100	ug/L	***4.3***	***0.7***	0.83 U	0.2 U	4 U	***4.4***	***0.98***	***0.3***	***4.3***	***0.55***	***0.68***	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	***4.9***	***2.8***	8 U	***4.3***	0.38 U	***14***	***4.1***	***2.4***	***0.38***	***2.4***	***14***	NA	0.2 U	0.2 U	0.2 U	***0.46***	0.19 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	***1.4***	***2.8***	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	***0.62***	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	0.4 U	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	0.4 U	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	1.3	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	CHRYSENE	0.2	0.2	65	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	***1.4***	***2.6***	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	0.4 U	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	FLUORANTHENE	0.5	1000	- -	ug/L	1.1	0.2 U	0.83 U	0.2 U	4 U	0.64	0.2 U	0.2 U	0.35	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.31 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	14	23	22	6.9	5.4	13	4.1	3	0.21	2 U	14	NA	0.2 U	0.2 U	0.2 U	0.48	0.19 U
	FLUORENE	0.5	1000	- -	ug/L	2.4	0.2 U	0.83 U	0.2 U	41	3	0.22	0.2 U	0.28	0.2 U	0.19 U	0.2 U	0.19 U	1.7	1.9 U	3	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	73	30	21	8.7	14	18	0.38 U	130	24	25	0.2 U	3.3	120	NA	0.2 U	0.2 U	0.2 U	2.1	0.19 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.31 U	0.2 U	0.83 U	0.2 U	4 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	1 U	0.4 U	8 U	0.94 U	0.38 U	8 U	2 U	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	1.2	0.2 U	0.83 U	0.2 U	44	1.8	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	7.6 U	0.39 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	87	74	27	1.5	16	23	0.38 U	100	33	28	0.2 U	7.7	36	NA	0.2 U	0.2 U	0.2 U	0.42	0.19 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.32	0.2 U	0.83 U	0.2 U	4 U	4.1	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	100	89	4.5	0.4 U	8 U	0.94 U	0.38 U	31	2	2 U	0.2 U	2 U	3.8 U	NA	0.2 U	0.2 U	0.2 U	0.69	0.19 U
	NAPHTHALENE	1	20	20	ug/L	0.65	0.2	0.83 U	0.2 U	***340***	16	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	***1100***	***1300***	1 U	3.7	***160***	***90***	0.38 U	8 U	12	9.7	0.2 U	2 U	4.5	NA	0.2 U	0.2 U	0.2 U	1.6	0.19 U
	PHENANTHRENE	0.22	0.2	510	ug/L	***6.3***	***0.27***	0.83 U	0.2 U	***43***	***4***	***0.42***	0.2 U	***0.48***	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	***120***	***51***	***24***	***4.1***	***19***	***22***	0.38 U	***170***	***29***	***14***	0.2 U	***3.6***	***62***	NA	0.2 U	0.2 U	0.2 U	***3.6***	0.19 U
	PYRENE	0.5	1000	- -	ug/L	0.51	0.2 U	0.83 U	0.2 U	4 U	0.23	0.2 U	0.2 U	0.22	0.2 U	0.19 U	0.2 U	0.19 U	0.19 U	1.9 U	0.19 U	NA	NA	NA	10 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	20 U	20 U	10	15	18	3.5	2.3	8 U	2.3	2 U	0.2 U	2 U	5.1	NA	0.2 U	0.2 U	0.2 U	0.3	0.19 U
	TOTAL PAHs	- -	- -	- -	ug/L	20.58	1.55	ND	ND	549	37.07	1.62	0.3	5.63	0.55	0.68	ND	ND	6.1	5.6	7.6	NA	NA	NA	ND	ND	ND	ND	ND	ND	1620	1635	164.3	87.12	280	224.7	40.7	798	220.5	182.1	0.59	106	535.6	NA	ND	ND	ND	11.65	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	***0.8***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	***6***	4.3	1.7	1 U	1 U	1.6	1.8	***15***	***7.8***	4.9	1 U	1 U	1.3	NA	1 U	1 U	1 U	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1.9	1.4	1 U	1 U	1 U	1 U	1 U	1.9	1.1	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.7 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1.8	1.5	1 U	1 U	1 U	1 U	1 U	4.4	1	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	2 U	2 U	7.9	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	2 U	2 U	2 U	2 U	2 U	17	26	11	2 U	2 U	2 U	2.1	2.8	6.4	2 U	2 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	10 U	NA	NA	NA	NA	NA	10 U
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	16.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	26.7	33.2	12.7	ND	ND	1.6	3.9	24.1	16.3	4.9	ND	ND	1.3	NA	ND	ND	ND	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.02 U	NA	NA	NA	NA	0.01 U	0.01 U	0.015	0.01 U	0.01 U	***0.029***	***0.023***	***0.022***	0.01 U	0.01 U	0.01 U	0.01 U	***0.031***	0.012	***0.031***	***0.092***	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	0.01 U	0.01 U	0.032	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.014	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	NA	***0.022***	***0.018***	***0.098***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	NA	NA	NA	NA	0.005 U	0.0072	***0.031***	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	***0.016***	0.0091	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	***0.018***	***0.022***	***0.075***	NA	0.005 U	0.005 U	***0.049***	0.005 U	0.005 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	0.052	0.02	0.077	0.02 U	0.02	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.039	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.056	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.082	0.27	0.02 U	NA	NA	0.02 U	0.02 U	0.081	0.02 U	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	0.21	17	15	18	***300***	***40***	***50***	***34***	***47***	0.045	***34***	***41***	***45***	***39***	***50***	***41***	***60***	***56***	***38***	***44***	6.5	4.4	4.3	4.6	2.9	***650***	***730***	***160***	0.8	***110***	***190***	***150***	***180***	***72***	***80***	0.18	0.055	***110***	NA	17	14	18	14	1.5
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/ cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and Italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

Location:						PDMW-45P	PDMW-45R													PDMW-46				PDMW-47				PDMW-48				PDMW-49			PDMW-50			PDMW-51			PDMW-52				PDMW-53			RT-1	RT-2	RT-3
Sample Date:						12/4/2009	4/2/2008	7/22/2008	10/7/2008	6/15/2010	12/14/2010	6/14/2011	12/11/2013	6/3/2014	11/3/2014	5/20/2015	11/11/2015	6/4/2014	11/3/2014	5/20/2015	11/11/2015	6/4/2014	11/4/2014	5/20/2015	11/11/2015	6/4/2014	11/4/2014	5/19/2015	11/11/2015	6/6/2014	11/4/2014	5/18/2015	6/4/2014	11/6/2014	5/19/2015	6/6/2014	11/6/2014	5/18/2015	6/5/2014		11/6/2014	5/18/2015	11/4/2014	5/19/2015	11/11/2015	10/16/2001	1/10/2002	3/8/2002
Sample Type:						Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Sample ID:						PDMW-45P_12/4/2009	PDMW-45R_4/2/2008	PDMW-45R_7/22/2008	PDMW-45R_10/7/2008	PDMW-45R_6/15/2010	PDMW-45R_12/14/2010	PDMW-45R_061411	PDMW-45R_12/11/2013	PDMW-45R_060320 14	PDMW-45R_110320 14	PDMW-45R_052020 15	PDMW-45R_111120 15	PDMW-46_060401 4	PDMW-46_110301 4	PDMW-46_052020 15	PDMW-46_111201 5	PDMW-47_060401 4	PDMW-47_110401 4	PDMW-47_052020 15	PDMW-47_111201 5	PDMW-48_060401 4	PDMW-48_110401 4	PDMW-48_051920 15	PDMW-48_111201 5	PDMW-49_060601 4	PDMW-49_110401 4	PDMW-49_051820 15	PDMW-50_060401 4	PDMW-50_110601 4	PDMW-50_051920 15	PDMW-51_060601 4	PDMW-51_110601 4	PDMW-51_051820 15	PDMW-52_060520 14	DUP-03_060520 14	PDMW-52_110601 4	PDMW-52_051820 15	PDMW-53_110401 4	PDMW-53_051920 15	PDMW-53_111201 5	RT-1_10/16/200 1	RT-2_1/10/2002	RT-3_3/8/2002
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.19 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1.1***	1 U	1 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 UJ	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHRYSENE	0.2	0.2	65	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	FLUORANTHENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U
	FLUORENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.75 U	0.19 U	0.19 U	0.19 U	0.2 U	0.4 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NAPHTHALENE	1	20	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4 J	1 U	1 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	***9.4 UH***	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U
	PYRENE	0.5	1000	- -	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.2 U	0.2 U	NA	NA	10 U	9.4 UH	NA	NA	NA	9.6 U	NA	NA	NA	9.6 U	NA	NA	NA	NA	9.8 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1 U	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	NA	NA	NA	1 U	NA	NA	NA	1 U	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	2 U	2 U	2 U	2 U	2 U	NA	NA	2 U	2 U	NA	NA	NA	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	NA	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	10 U	10 U	NA	10 U	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.8	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.02 U	0.01 U	0.01 U	0.01 U	0.02 U	NA	***0.035***	0.0047	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.013	0.01 U	0.01 U
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	140	110
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.01 U	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.024***	0.0075	NA
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	65	28
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.0054	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	480	200
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	0.02 U	0.02 U	NA	NA	0.4	NA	NA	NA	0.02 U	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.032	0.074
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	390
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	360
	AMMONIA AS N	15	30	30	mg/L	0.76	3.8	2	6.6	5.7	NA	NA	1.2	8.6	4.7	3.6	0.8	2.9	2.2	0.6	1.1	***72***	***110***	***39***	***39***	27	22	8.5	28	0.42	1.7	0.63	7.8	7.7	5.9	7	5.7	3	11	8.8	0.9	0.58	5.5	1.6	3.6	***33***	***90***	***47***
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	360
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200	3900	2000
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.11	0.05 UH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UH	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	3
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	NA	NA	0.05 U	0.073	NA	NA	0.052	0.05 U	NA	NA	0.19	0.11	NA	NA	0.05 U	NA	NA	0.088	NA	NA	0.05 U	NA	NA	NA	0.05 U	NA	0.089	0.05 U	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1100
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinki

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						TMW-1																																				TW2
					Sample Date:	10/11/1997	8/11/1999		9/28/1999	11/18/1999	2/24/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/5/2002	9/10/2002	2/5/2003	6/25/2003	1/27/2004	7/23/2004	3/9/2006		4/3/2008	7/18/2008	10/5/2008	12/5/2009		6/18/2010	12/15/2010		6/15/2011		12/6/2011		12/11/2013	6/5/2014	11/5/2014		5/21/2015	5/21/2015	11/12/2015	11/12/2015	10/11/1997
					Sample Type:	Normal	Normal		Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Dup	Normal	Dup	Normal	Dup	Normal	Normal	Normal	Dup	Normal	Dup	Normal	Normal	Normal
					Sample ID:	TMW-1_10/11/1997	TMW-1_8/11/1999	TMW-1_8/11/1999	TMW-1_9/28/1999	TMW-1_11/18/1999	TMW-1_2/24/2000	TMW-1_5/16/2000	TMW-1_8/22/2000	TMW-1_1/10/2001	TMW-1_7/16/2001	TMW-1_2/5/2002	TMW-1_9/10/2002	TMW-1_2/5/2003	TMW-1_6/25/2003	TMW-1_1/27/2004	TMW-1_7/23/2004	TMW-1_3/9/2006	TMW-1 (DUP)_3/9/2006	TMW-1_4/3/2008	TMW-1_7/18/2008	TMW-1_10/5/2008	TMW-1_12/5/2009	TMW-1-DUP_12/5/2009	TMW-1_6/18/2010	TMW-1_12/15/2010	TMW-1 DUP1_12/15/2010	TMW-1_061511	DUP-1_061511	TMW-1_12062011	DUP-02_12062011	TMW-1_12/11/2013	TMW-01_06052014	TMW-1_11052014	DUP-1_11052014	DUP_01_05212015	TMW_1_05212015	DUP-02_11122015	TMW-1_11122015	TW2_10/11/1997
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	--	ug/L	5 U	2.2	1 U	NA	10 U	2.1 J	1 U	1 U	1 U	1 U	NA	2 U	2 U	3.8	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	1.9 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	1 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	5 U	1 U	1 U	NA	10 U	1 U	***200 D***	***85***	1 U	***7.4 D***	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	1.9 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	***9.8 U***	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	1 U
	ANTHRACENE	0.2	0.2	5100	ug/L	1 U	0.2 U	0.2 U	NA	2 U	0.2 U	***0.32 J***	0.2 U	0.2 U	0.2 U	NA	2 U	2 U	***0.26***	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	1 U	0.2 U	0.2 U	NA	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	1 U	0.2 U	0.2 U	NA	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 UJ	1.9 UJ	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	1 U	0.2 U	0.2 U	NA	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	BENZO(G,H,I)PERYLENE	--	--	--	ug/L	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 UJ	1.9 UJ	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	BENZO(K)FLUORANTHENE	--	--	--	ug/L	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	CHRYSENE	0.2	0.2	65	ug/L	1 U	0.2 U	0.2 U	NA	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	DIBENZO(A,H)ANTHRACENE	--	0.3	--	ug/L	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	1 U
	FLUORANTHENE	0.5	1000	--	ug/L	2.5 U	0.5 U	0.5 U	NA	5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	FLUORENE	0.5	1000	--	ug/L	2.5 U	0.5 U	0.5 U	NA	5 U	0.5 U	0.64 J	0.5 U	0.76	0.5 U	NA	2 U	2 U	0.34	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	INDENO(1,2,3-CD)PYRENE	--	0.4	--	ug/L	2.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	1-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	18	17	12	22	19	15	2	7 D	1.2	1.2	0.38 U	6.3	7	6.6	6.7	9.7	10	12	15	12	12	11	9.7 U	11	9.5 U	NA
	2-METHYLNAPHTHALENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	31	46 D	28	17	36	29	18	2.1	5.4 D	0.84	0.75	0.19 U	5.1	5.5	6.6	6.6	13	14	7	15	16	16	11	9.7 U	13	9.5 U	NA
	NAPHTHALENE	1	20	20	ug/L	***59***	***54 D***	1 U	NA	***88***	***67 D***	***140 D***	***92***	***110 D***	***110 D***	NA	***100***	***120***	***140 D***	***92***	***27 *X***	***69***	16	***72***	14	***27 D***	6.4	6.1	1.8	***33***	***37***	***33***	***34***	***52***	***55***	5.2	***39***	***44***	***40***	***44***	***40***	***63***	***26 F1***	1 U
	PHENANTHRENE	0.22	0.2	510	ug/L	1 U	***0.62***	***0.25***	NA	2 U	***0.54 J***	***1.7***	***1***	***0.69***	***0.35 J***	NA	2 U	2 U	***0.46***	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.2 U
	PYRENE	0.5	1000	--	ug/L	2.5 U	0.5 U	0.5 U	NA	5 U	0.5 U	0.5 U	0.53	0.5 U	0.5 U	NA	2 U	2 U	0.2 U	2 U	1 U	1 U	0.19 U	1.9 U	0.2 U	0.38 U	0.2 U	0.2 U	0.19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	9.2 U	9.8 U	9.7 U	9.8 U	9.9 U	9.7 U	9.7 U	9.5 U	0.5 U
	TOTAL PAHs	--	--	--	ug/L	59	56.82	0.25	NA	88	69.64	342.66	179.03	111.45	117.75	NA	147	168	208.86	137	56	127	64	105	18.1	39.4	8.44	8.05	1.8	44.4	49.5	46.2	47.3	74.7	79	31.3	69	72	68	66	40	87	58	ND
VOCs	BENZENE	1	5	31.2	ug/L	***120***	1 U	***84***	50 U	***120***	***130***	***120***	***140***	***150***	***160***	NA	***120***	***110***	***90***	***87***	***25***	***18***	***14***	***56***	***47***	***41***	***30***	***21***	***32***	***52***	***51***	***42***	***44***	NA	NA	***58***	***81***	***80***	***77***	***48***	***47***	***51***	***52***	1 U
	ETHYLBENZENE	1	700	--	ug/L	250	1 U	10 U	570	250	370	490	580	580	650	NA	420	530	340	390	1 U	77	21	1.2	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	160	2 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	p/m-XYLENE	--	--	--	ug/L	NA	1 U	500	1500	490	840	1300	670	1400	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	--	--	--	ug/L	NA	5 U	50 U	250 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA
	o-XYLENE	--	--	--	ug/L	NA	1 U	360	50 U	460	880	620	1000	830	880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	700	1 U	280	***1100***	550	970	***1100***	730	***1300***	950	NA	450	880	740	750	1.4	140	76	1.5 U	11	1 U	1 U	1 U	1.5 U	1 U	1 U	1 U	1 U	NA	NA	1.2	2 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	--	ug/L	1000	NA	860	1500	950	1720	1920	1670	2230	2280	NA	1500	1900	1400	1400	2 U	310	200	440 D	220	93	22	12	18	120	110	130	140	NA	NA	3.5	250	420	420	120	110	220	220	2 U
	METHYL TERT BUTYL ETHER	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	20 U	20 U	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	--	--	--	ug/L	2070	ND	1220	3170	1870	3190	3630	3120	4260	4040	NA	2490	3420	2570	2627	26.4	545	311	497.2	290	134	52	33	50	172	161	172	184	NA	NA	222.7	331	500	497	168	157	271	272	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	***0.479***	***0.57***	0.01 U	NA	***0.54***	***0.36***	***0.57***	0.01 U	0.01 U	***0.33***	NA	***0.35***	***0.43***	***0.34***	***0.33***	***0.32***	***0.37***	***0.36***	***0.058***	***0.082***	***0.045***	0.02 U	0.02 U	0.02 U	***0.14***	***0.12***	0.072 U	0.072 U	***0.15***	***0.17***	***0.15***	***0.095***	***0.13***	***0.15***	***0.14***	***0.16 F1***	***0.12***	***0.15***	0.01 U
	BERYLLIUM	--	0.004	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	BORON	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	--	0.005	--	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	CALCIUM METAL	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	--	mg/L	0.0706	0.1 U	0.01 U	NA	0.095	0.072	0.1	0.01 U	0.01 U	0.055	NA	0.061	0.075	0.056	0.065	0.063	0.053	0.052	0.01 U	0.014	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	0.023	0.017	0.026	0.03	0.019	0.032	0.023	0.029	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	***0.0202***	0.05 U	0.005 U	NA	***0.038***	***0.034***	***0.05***	0.005 U	0.005 U	***0.021***	NA	0.025 U	***0.017***	***0.021***	0.025 U	***0.041***	0.014	***0.016***	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.04 U	0.04 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U
	MAGNESIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	--	0.002	--	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U
	NICKEL	0.13	0.1	2	mg/L	0.0442	0.4 U	0.04 U	NA	0.04 U	0.045	0.06	0.04 U	0.04 U	0.042	NA	0.2 U	0.057	0.045	0.2 U	***0.2 UF***	0.04	0.04	0.063	0.077	0.049	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	0.041	0.04 U	0.041	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
	POTASSIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.0895	0.2	0.02 U	NA	0.1 U	0.09	0.12	0.02 U	0.02 U	0.12	NA	0.59	0.18	0.18	0.64	0.34	0.068	0.07	0.21	0.59	0.16	0.21	0.23	0.036	NA	NA	NA	NA	NA	NA	0.091	0.072	0.097	0.094	0.072	0.077	0.063	0.078	0.02 U
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	NA	NA	***0.13***	***0.34***	***0.54***	NA	NA	***0.29***	***0.35***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
	BERYLLIUM	--	0.004	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	CADMIUM	--	0.005	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	CHROMIUM	0.013	0.1	--	mg/L	NA	NA	NA	NA	0.023	0.067	0.1	NA	NA	0.046	0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	NA	NA	0.0097	***0.04***	***0.055***	NA	NA	***0.018***	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
	MERCURY	--	0.002	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U
	NICKEL	0.13	0.1	2	mg/L	NA	NA	NA	NA	0.2 U	0.043	0.061	NA	NA	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U
	ZINC	0.96	2	31	mg/L	NA	NA	NA	NA	0.031	0.1	0.13	NA	NA	0.13	0.075	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U
Miscellaneous	ALKALINITY	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	***3500***	***15000***	***170***	NA	***3500***	***5400***	***9400***	***18000***	***3300***	***5300***	NA	***7600***	***5900***	***7300***	***6700***	NA	***9400***	***8000***	***1400***	***1700***	***1100***	***330***	***350***	***500***	***3200***	***3200***	***1000***	***1100***	***4600***	***4300***	***2900***	***2600***	***3800***	***3900***	***3700***	***4300***	***3400***	***3600 F1***	0.037
	BICARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	--	--	--	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	--	10	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	170	120	100	280	290	230	250 F1	NA
	NITRITE (AS N)	--	--	--	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50 U	50 UF1	10 U	10 U	NA
	SULFATE	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	--	--	--	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	--	--	--	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	NA	NA	NA	NA	NA	NA	NA

Notes:

Shaded cell indicates comparison standard used in data evaluation.

Highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drink

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Table 3
Summary of Historical Groundwater Analytical Results
HSI Site #10101, Hutchinson Island, GA

						TMW-4																TMW-4R														UMW	FIELDQC	
					Sample Date:	10/9/1997	8/10/1999	11/17/1999	2/23/2000	5/16/2000	8/22/2000	1/10/2001	7/16/2001	2/6/2002	9/11/2002	2/7/2003	6/25/2003	1/29/2004	7/20/2004	4/3/2008	7/20/2008	10/5/2008	12/1/2009	6/17/2010	12/14/2010	6/13/2011	12/21/2011	12/12/2013		6/3/2014	11/4/2014	5/19/2015	11/12/2015	10/19/1997	6/3/2014	11/6/2014
					Sample Type:	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Dup	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
					Sample ID:	TMW-4_10/9/1997	TMW-4_8/10/1999	TMW-4_11/17/1999	TMW-4_2/23/2000	TMW-4_5/16/2000	TMW-4_8/22/2000	TMW-4_1/10/2001	TMW-4_7/16/2001	TMW-4_2/6/2002	TMW-4_9/11/2002	TMW-4_2/7/2003	TMW-4_6/25/2003	TMW-4_1/29/2004	TMW-4_7/20/2004	TMW-4R_4/3/2008	TMW-4R_7/20/2008	TMW-4R_10/5/2008	TMW-4R_12/1/2009	TMW-4R_6/17/2010	TMW-4R_12/14/2010	TMW-4R-061311	TMW-4R_12212011	TMW-4R_12/12/2013	DUP-2_12/12/2013	TMW-4R_06032014	TMW-4R_11042014	TMW-4R_05192015	TMW-4R_11122015	UMW_10/19/1997	FB-01_06032014	FB-01_11062014
Method Group	Analyte	Background	Type 3 RRS	Type 4 RRS	Units	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
PAHs	ACENAPHTHENE	1	2000	- -	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41	0.33	0.38	0.32	0.33	0.19 U	0.19 U	0.19 U	0.29	0.19 U	0.32	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	1 U	9.8 U	9.6 U
	ACENAPHTHYLENE	1.4	1	510	ug/L	1 U	1 U	***1.6***	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	1 U	9.8 U	9.6 U
	ANTHRACENE	0.2	0.2	5100	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	***0.34***	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	BENZO(A)ANTHRACENE	0.2	0.1	3.9	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	BENZO(A)PYRENE	0.2	0.2	0.39	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	BENZO(B)FLUORANTHENE	0.2	0.2	0.65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	BENZO(G,H,I)PERYLENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	BENZO(K)FLUORANTHENE	- -	- -	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	CHRYSENE	0.2	0.2	65	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	DIBENZO(A,H)ANTHRACENE	- -	0.3	- -	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	1 U	9.8 U	9.6 U
	FLUORANTHENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	FLUORENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.37	0.26	0.35	0.33	0.29	0.19 U	0.19 U	0.48	0.32	0.47	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	INDENO(1,2,3-CD)PYRENE	- -	0.4	- -	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	1-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.78 U	0.38 U	NA	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	NA	9.8 U	9.6 U
	2-METHYLNAPHTHALENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	NA	9.8 U	9.6 U
	NAPHTHALENE	1	20	20	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.28	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	1 U	9.8 U	9.6 U
	PHENANTHRENE	0.22	0.2	510	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.2 U	9.8 U	9.6 U
	PYRENE	0.5	1000	- -	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	NA	NA	NA	10 U	10 U	9.9 U	NA	NA	NA	0.5 U	9.8 U	9.6 U
	TOTAL PAHs	- -	- -	- -	ug/L	ND	ND	1.6	ND	ND	ND	ND	ND	ND	0.78	1.21	0.73	0.65	0.62	ND	ND	ND	0.77	0.32	0.79	NA	NA	NA	ND	ND	ND	NA	NA	NA	ND	ND	ND
VOCs	BENZENE	1	5	31.2	ug/L	1 U	1 U	1 U	***13***	1 U	1 U	1 U	3.9	1 U	1 U	***7.4***	1 U	1 U	***9.6***	***9.1***	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	ETHYLBENZENE	1	700	- -	ug/L	1 U	1 U	1 U	12	1.2	1 U	1 U	4.3	1 U	1 U	3.3	1 U	1 U	4	3	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	p/m-XYLENE	- -	- -	- -	ug/L	NA	1.2	1 U	1.8	1	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	METHYLENE CHLORIDE	- -	- -	- -	ug/L	NA	5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5 U	5 U	NA	NA	NA	NA	NA	NA	NA
	o-XYLENE	- -	- -	- -	ug/L	NA	1 U	1 U	3.4	1 U	1 U	2.4	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	TOLUENE	1	1000	1900	ug/L	1 U	1 U	1 U	8	1 U	1 U	1 U	2.4	1 U	1 U	1 U	1 U	1 U	5.7	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U	NA	NA	NA	1 U	1 U	1 U
	XYLENES (TOTAL)	2	10000	- -	ug/L	7.6	1.2	1 U	5.2	1	1 U	2.4	3.7	2 U	2 U	2 U	2.6	2.3	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	2 U	NA	NA	NA	2 U	2 U	2 U
	METHYL TERT BUTYL ETHER	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	NA	NA	10 U	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	NA	NA	NA
	TOTAL BTEX	- -	- -	- -	ug/L	7.6	1.2	ND	38.2	2.2	ND	10.6	6.1	ND	10.7	ND	2.6	15.9	17.8	ND	ND	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	NA	NA	NA	ND	ND	ND
Metals, Total	ARSENIC	0.018	0.018	0.018	mg/L	0.01 U	0.014	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	***0.021***	***0.025***	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	***0.021***	***0.032***	0.02 U	0.02 U	0.018 U	NA	0.018 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.01 U	0.02 U	0.02 U
	BERYLLIUM	- -	0.004	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	BORON	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	CALCIUM METAL	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
	LEAD	0.007	0.015	0.015	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.014	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	0.01 U	0.01 U
	MAGNESIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MERCURY	- -	0.002	- -	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
	NICKEL	0.13	0.1	2	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U	0.04 U	NA	NA	NA	0.04 U	0.04 U	0.04 U
	POTASSIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SODIUM	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZINC	0.96	2	31	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	0.028	0.02 U	0.053	0.074	0.021	0.02 U	0.02 U	0.02 U	0.035	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	NA	NA	NA	0.02 U	0.02 U	0.066
Metals, Dissolved	ARSENIC	0.018	0.018	0.018	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	***0.02***	***0.029***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA
	BERYLLIUM	- -	0.004	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	CADMIUM	- -	0.005	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	CHROMIUM	0.013	0.1	- -	mg/L	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA
	LEAD	0.007	0.015	0.015	mg/L	NA	NA	0.005 U	0.005 U	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
	MERCURY	- -	0.002	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
	NICKEL	0.13	0.1	2	mg/L	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.04 U	NA	NA
	ZINC	0.96	2	31	mg/L	NA	NA	0.02 U	0.02 U	0.02 U	NA	0.026	0.028	0.02 U	NA	NA	NA	NA	NA	NA	0.02 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA
Miscellaneous	ALKALINITY	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ALKALINITY, TOTAL (AS CACO3)	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	AMMONIA AS N	15	30	30	mg/L	NA	20	0.32	18	20	12	2.2	30	6	21	8.9	16	3.4	10	2.1	2.9	9.3	17	20	NA	23	NA	1.9	1.6	6.1	7.8	6.8	3.1	17	0.054	0.05 U
	BICARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CARBONATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	CONDUCTIVITY	- -	- -	- -	umhos/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NITRATE (AS N)	- -	10	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	0.17	0.17
	NITRITE (AS N)	- -	- -	- -	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.081	0.05 U	NA	NA	NA	NA	NA
	SULFATE	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	SOLIDS, TOTAL DISSOLVED	- -	- -	- -	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SVOCs	1,4-DICHLOROBENZENE	- -	- -	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

shaded cell indicates comparison standard used in data evaluation.

highlighted cell indicates analytical result exceeds comparison criteria.

Bold and italic text indicates analytical result exceeds background value.

- Nitrate comparison standard based on the Maximum Contaminant Level (MCL) established by the USEPA National Primary Drinki

ND - No constituents detected above the laboratory minimum detection limit.

U: Incidactes constituent was not detected above value shown.

J: Indicates constituent was detected at an estimated value.

UJ: Indicates constituent was not detected at an estimated value shown.

Monitoring wells MW-3R, PDMW-8R, PDMW-10R, PDMW-11R, PDMW-14TR, PDMW-23R, PDMW-31R2, PDMW-32R, PDMW-33R, I installed to replace wells MW-3, PDMW-8T, PDMW-10T, PDMW-11P, PDMW-14T, PDMW-23T, PDMW-30P, PDMW-31R, PDMW-32 respectively.

Sample ID:		Samples Collected from Location Upstream SW																			
Date Collected:		Canal - Up	SW1 Up	SW1 Up-High	SW1-High	SW1-Low	SW1-HIGH	SW1-LOW	SW1-HIGH	SW1-LOW	SW1-HIGH	SW1-LOW	SW1-HIGH	SW1-Low	SW1-High	SW1-Low	SW UPSTREAM	SW-UPSTREAM	SW-UPSTREAM	SW Upstream	SW-UPSTREAM
		11/07/97	11/17/99	11/17/99	02/25/00	02/25/00	05/16/00	05/16/00	08/22/00	08/22/00	01/09/01	01/09/01	07/16/01	07/16/01	02/04/02	02/05/02	09/12/02	02/07/03	06/26/03	01/27/04	07/23/04
Tide Stage:	Units	Low	Low	High	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	Low	High	High
PAHs																					
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Acenaphthene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Acenaphthylene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Anthracene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Benzo(a)anthracene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Benzo(a)pyrene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Benzo(b)fluoranthene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Benzo(g,h,i)perylene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Benzo(k)fluoranthene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Chrysene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Dibenz(a,h)anthracene	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Fluoranthene	ug/L	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2
Fluorene	ug/L	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Indeno(1,2,3-cd)pyrene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Naphthalene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.2 U
Phenanthrene	ug/L	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.63
Pyrene	ug/L	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U [0.2 U]	0.21
Total PAHs	ug/L	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND	ND [ND]	ND	ND [ND]	1.04
Volatile Organic Compounds																					
Benzene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U
Ethylbenzene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U
m&p-Xylene	ug/L	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	1 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	ug/L	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	1 U	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/L	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U [1 U]	1 U	1 U [1 U]	1 U
Xylenes (total)	ug/L	2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	2 U	2 U [2 U]	2 U	2 U [2 U]	2 U
Total BTEX	ug/L	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	NA	ND	ND	NA	ND	ND [ND]	ND	ND [ND]	ND
Metals																					
Arsenic	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 U
Beryllium	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.02 [0.01 U]	0.01 U
Lead	mg/L	0.005 U	0.005 U	0.005 U	0.0073 U	0.005 U	0.005 U	0.01	0.015 U	0.015 U	0.005 U	0.005 U	0.005 U	0.005 U	0.023	0.005 U	0.005 U	0.005 U [0.0057]	0.0064	0.02 [0.005 U]	0.005 U
Mercury	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U [0.04 U]	0.04 U	0.04 U [0.04 U]	0.04 U
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.11	0.093	0.02 U	0.081	0.072	0.14	0.07	0.02 U	0.11	0.05	0.12	0.06	0.026	0.044 [0.043]	0.044	0.15 [0.082]	0.02 U
Metals-Filtered																					
Arsenic	mg/L	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA
Nickel	mg/L	NA	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	0.02 U	0.02 U	0.049	0.071	NA	0.047	NA	0.03	0.039	NA	0.028	0.024	0.028	0.02 U	NA	NA	NA	NA	NA
Miscellaneous																					
Ammonia-N	mg/L	0.36	0.84	0.42	4.1	2.6	0.36	1.3	0.26	1.4	1.8	0.76	0.21	1.8	0.94	NA	0.14	2.6 [2.7]	0.92	3.5 [3.9]	0.33

Notes:

1) NA = Analyte was not analyzed.
2) ND = Not Detected
3) U = Indicates result value is below the laboratory quantitaton limit.
4) Total BTEX and Total PAHs were calculated as the sum of detected results where at least one of the analytes was detected, and reported as Not Detected (ND) in cases where all analytes were below their respective laboratory quantitation limits.
5) [value] indicates results of field duplicate sample

Table 4
Summary of Historical Surface Water Testing Results

Sample ID: / Date Collected: / Tide Stage:	Units	Samples Collected from Location Downstream SW													
		Canal - Down 11/08/97 Low	SW1 Down 11/17/99 Low	SW1 Down-High 11/17/99 High	SW2-High 02/25/00 High	SW2-Low 02/25/00 Low	SW2-HIGH 05/16/00 High	SW2-LOW 05/16/00 Low	SW2-HIGH 08/22/00 High	SW2-LOW 08/22/00 Low	SW2-HIGH 01/09/01 High	SW2-LOW 01/09/01 Low	SW2-HIGH 07/16/01 High	SW2-Low 07/16/01 Low	SW2-High 02/04/02 High
PAHs															
1-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
Acenaphthylene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
Anthracene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)anthracene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)pyrene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(b)fluoranthene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(g,h,i)perylene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenz(a,h)anthracene	ug/L	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Fluorene	ug/L	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Indeno(1,2,3-cd)pyrene	ug/L	0.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
Phenanthrene	ug/L	0.2 U	0.2 U	0.2 U	NA	0.2 U	NA	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pyrene	ug/L	0.5 U	0.5 U	0.5 U	NA	0.5 U	NA	NA	NA	NA	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total PAHs	ug/L	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Volatile Organic Compounds															
Benzene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
m&p-Xylene	ug/L	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	NA
o-Xylene	ug/L	NA	1 U	1 U	NA	NA	NA	NA	NA	NA	1 U	1 U	1 U	1 U	NA
Toluene	ug/L	1 U	1 U	1 U	NA	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	ug/L	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	NA	2 U
Total BTEX	ug/L	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Metals															
Arsenic	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Beryllium	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Lead	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.015 U	0.0087	0.005 U	0.005 U	0.005 U	0.0069	0.005 U
Mercury	mg/L	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Zinc	mg/L	0.052	0.02 U	0.02 U	0.022	0.02 U	0.02 U	0.025	0.072	0.025	0.024	0.02 U	0.027	0.038	0.02 U
Metals-Filtered															
Arsenic	mg/L	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	mg/L	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	NA	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	NA	0.005 U	NA	NA	NA	0.005 U	NA
Nickel	mg/L	NA	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	NA	0.02 U	0.032	NA	0.053	0.02	NA
Miscellaneous															
Ammonia-N	mg/L	0.93	6.2	0.48	0.64	5.2	0.64	1.8	0.18	2.2	0.17	2.8	0.82	4.3	0.12

Notes:

1) NA = Analyte was not analyzed.
2) ND = Not Detected
3) U = Indicates result value is below
4) Total BTEX and Total PAHs were
   where at least one of the analytes v
   (ND) in cases where all analytes we
   quantitation limits.
5) [value] indicates results of field dup

Table 4
Summary of Historical Surface Water Testing Results

Sample ID: / Date Collected: / Tide Stage:	Units	Samples Collected from Location Downstream SW				
		SW DOWNSTREAM 09/12/02 High	SW-DOWNSTREAM 02/07/03 Low	SW DOWNSTREAM 06/25/03 Low	SW Downstream 01/27/04 High	SW-Downstream 07/22/04 High
PAHs						
1-Methylnaphthalene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
2-Methylnaphthalene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Acenaphthene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Acenaphthylene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Anthracene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Benzo(a)anthracene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Benzo(a)pyrene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Benzo(b)fluoranthene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Benzo(g,h,i)perylene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Benzo(k)fluoranthene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Chrysene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Dibenz(a,h)anthracene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Fluoranthene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Fluorene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Indeno(1,2,3-cd)pyrene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Naphthalene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Phenanthrene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Pyrene	ug/L	0.2 U	0.2 U	0.2 U [0.2 U]	0.2 U	0.2 U
Total PAHs	ug/L	ND	ND	ND [ND]	ND	ND
Volatile Organic Compounds						
Benzene	ug/L	1 U	1 U	1 U [1 U]	1 U	1 U
Ethylbenzene	ug/L	1.3	1 U	1 U [1 U]	1 U	1 U
m&p-Xylene	ug/L	NA	NA	NA	NA	NA
o-Xylene	ug/L	NA	NA	NA	NA	NA
Toluene	ug/L	2	1 U	1 U [1 U]	1 U	1 U
Xylenes (total)	ug/L	7.2	2 U	2 U [2 U]	2 U	2 U
Total BTEX	ug/L	10.5	ND	ND [ND]	ND	ND
Metals						
Arsenic	mg/L	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Beryllium	mg/L	NA	NA	NA	NA	NA
Cadmium	mg/L	NA	NA	NA	NA	NA
Chromium	mg/L	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Lead	mg/L	0.005 U	0.005 U	0.0075 [0.0083]	0.005 U	0.005 U
Mercury	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	0.04 U	0.04 U	0.04 U [0.04 U]	0.04 U	0.04 U
Zinc	mg/L	0.02 U	0.02 U	0.032 [0.027]	0.13	0.02 U
Metals-Filtered						
Arsenic	mg/L	NA	NA	NA	NA	NA
Chromium	mg/L	NA	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA	NA
Nickel	mg/L	NA	NA	NA	NA	NA
Zinc	mg/L	NA	NA	NA	NA	NA
Miscellaneous						
Ammonia-N	mg/L	0.57	5.6	3 [3]	1.1	0.32

Notes:

1) NA = Analyte was not analyzed.
2) ND = Not Detected
3) U = Indicates result value is below
4) Total BTEX and Total PAHs were
   where at least one of the analytes
   (ND) in cases where all analytes we
   quantitation limits.
5) [value] indicates results of field dup

Table 5 - Summary of 2013-2015 Surface Water Analytical Results

Sample ID:		SW-1								SW-2							
Date Collected:		12/13/13		06/05/14		11/06/14		05/21/15		12/13/13		06/05/14		11/06/14		05/21/15	
Tide Stage:	Units	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
Polycyclic Aromatic Hydrocarbons																	
1-Methylnaphthalene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Acenaphthene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Acenaphthylene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Anthracene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Chrysene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Fluoranthene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Fluorene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Naphthalene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Phenanthrene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Pyrene	ug/L	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA	9.5 U	NA	9.7 U	9.5 U	NA	NA	NA	NA
Total PAHs	ug/L	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA
Volatile Organic Compounds																	
Benzene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	NA	1 U	1 U	NA	NA	NA	NA
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	NA	1 U	1 U	NA	NA	NA	NA
Toluene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	NA	1 U	1 U	NA	NA	NA	NA
Xylenes (total)	ug/L	2 U	2 U	2 U	2 U	NA	NA	NA	NA	2 U	NA	2 U	2 U	NA	NA	NA	NA
Total BTEX	ug/L	ND	ND	ND	ND	NA	NA	NA	NA	ND	NA	ND	ND	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA
Chromium	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
Lead	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
Nickel	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA
Miscellaneous																	
Alkalinity	mg/L	NA	NA	NA	NA	88	62	77	39	NA	NA	NA	NA	87	62	130	39
Ammonia-N	mg/L	0.30	0.25	1.4	0.44	0.29	0.16	0.62	0.41	0.29	0.053	1.6	0.12	0.40	0.20	1.5	0.52
Nitrite	mg/L	NA	NA	NA	NA	NA	NA	0.050 U	0.050 U	NA	NA	NA	NA	NA	NA	0.085	0.050 U
Nitrate	mg/L	0.21	0.4	0.32	0.34	0.12	0.25	0.27	0.28	0.18	NA	0.22	0.37	0.085	0.24	0.28	0.29

Notes:

U = Indicates the analyte was not detected above the minimum laboratory reporting limit

NA = Analyte was not analyzed.

ND = None of the constituents were detected above the minimum laboratory reporting limit

mg/L = milligrams per liter

ug/L = micrograms per liter

Table 5 - Summary of 2013-2015 Surface Water Analytical Results

Sample ID:		SW-3								SW-4							
Date Collected:		12/13/13		06/05/14		11/06/14		05/21/15		12/13/13		06/05/14		11/06/14		05/21/15	
Tide Stage:	Units	LOW	HIGH	LOW	HGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
Polycyclic Aromatic Hydrocarbons																	
1-Methylnaphthalene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Acenaphthene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Acenaphthylene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Anthracene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Chrysene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Fluoranthene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Fluorene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Naphthalene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Phenanthrene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Pyrene	ug/L	9.5 U	9.5 U	9.6 U	9.7 U	NA	NA	NA	NA	9.5 U	9.5 U	10 U	10 U	NA	NA	NA	NA
Total PAHs	ug/L	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	10 U	ND	NA	NA	NA	NA
Volatile Organic Compounds																	
Benzene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA	NA
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA	NA
Toluene	ug/L	1 U	1 U	1 U	1 U	NA	NA	NA	NA	1 U	1 U	1 U	1 U	NA	NA	NA	NA
Xylenes (total)	ug/L	2 U	2 U	2 U	2 U	NA	NA	NA	NA	2 U	2 U	2 U	2 U	NA	NA	NA	NA
Total BTEX	ug/L	ND	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA
Chromium	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
Lead	mg/L	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA
Nickel	mg/L	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA	0.04 U	0.04 U	0.04 U	0.04 U	NA	NA	NA	NA
Zinc	mg/L	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA
Miscellaneous																	
Alkalinity	mg/L	NA	NA	NA	NA	100	60	120	71	NA	NA	NA	NA	84	58	120	100
Ammonia-N	mg/L	0.27	0.092	1.7	0.31	0.19	0.22	0.80	0.91	0.17	0.33	1.9	0.39	0.13	0.16	1.5	0.83
Nitrite	mg/L	NA	NA	NA	NA	NA	NA	0.050 U	0.050 U	NA	NA	NA	NA	NA	NA	0.094	0.060
Nitrate	mg/L	0.18	0.42	0.26	0.36	0.083	0.25	0.21	0.27	0.41	0.24	0.28	0.39	0.078	0.24	0.17	0.25

Notes:

U = Indicates the analyte was not detected above the minimum laboratory reporting limit

NA = Analyte was not analyzed.

ND = None of the constituents were detected above the minimum laboratory reporting limit

mg/L = milligrams per liter

ug/L = micrograms per liter

Table 6
Monitoring Well Construction Details and Water Level Data

Well ID	Well Diameter (inches)	Ground Surface Elevation (ft above msl)	Top of Casing Elevation (ft above msl)	Well Depth (ft bgs)	Top of Screen Depth (ft bgs)	Bottom of Screen Depth (ft bgs)	Top of Screen Elevation (ft msl)	Bottom of Screen Elevation (ft msl)	May 2015 Depth to Water (ft below TOC)	May 2015 Water Table Elevation (ft msl)
MW-1	2	4.87	7.67	15.0	5.0	15.0	-0.13	-10.13	3.37	4.30
MW-2	2	5.25	7.90	15.0	5.0	15.0	0.25	-9.75	3.05	4.85
MW-3R	2	4.21	5.90	10.0	2.0	10.0	2.21	-5.79	2.05	3.85
PDMW-1T	2	5.21	7.71	8.0	3.0	8.0	2.21	-2.79	2.63	5.08
PDMW-2T	2	4.87	7.37	8.0	3.0	8.0	1.87	-3.13	2.07	5.30
PDMW-3T	2	7.05	9.55	8.0	3.0	8.0	4.05	-0.95	4.85	4.70
PDMW-4T	2	6.85	9.35	8.0	3.0	8.0	3.85	-1.15	4.58	4.77
PDMW-5T	2	5.59	8.09	8.0	3.0	8.0	2.59	-2.41	3.18	4.91
PDMW-6P	2	6.74	9.24	8.0	3.0	8.0	3.74	-1.26	4.55	4.69
PDMW-7P	2	4.74	7.24	8.0	3.0	8.0	1.74	-3.26	2.51	4.73
PDMW-8R	2	6.43	9.08	9.0	1.0	9.0	5.43	-2.57	3.98	5.10
PDMW-9T	2	6.91	9.38	8.0	3.0	8.0	3.91	-1.09	4.31	5.07
PDMW-10R	2	7.03	9.44	9.0	1.0	9.0	6.03	-1.97	4.40	5.04
PDMW-12P	2	6.92	9.42	8.0	3.0	8.0	3.92	-1.08	4.41	5.01
PDMW-13P	2	5.59	8.09	8.0	3.0	8.0	2.59	-2.41	3.13	4.96
PDMW-15T	2	5.94	8.44	8.0	3.0	8.0	2.94	-2.06	3.24	5.20
PDMW-17T	2	6.60	9.10	8.0	3.0	8.0	3.60	-1.40	4.2	4.90
PDMW-19P	2	6.77	9.27	8.0	3.0	8.0	3.77	-1.23	4.45	4.82
PDMW-20T	2	5.14	7.64	8.0	3.0	8.0	2.14	-2.86	2.42	5.22
PDMW-21T	2	4.59	7.09	8.0	3.0	8.0	1.59	-3.41	5	2.09
PDMW-22T	2	6.13	8.63	8.0	3.0	8.0	3.13	-1.87	3.56	5.07
PDMW-23R	2	7.36	10.07	8.0	1.0	8.0	6.36	-0.64	5.11	4.96
PDMW-24T	2	6.69	9.19	7.5	2.5	7.5	4.19	-0.81	4.21	4.98
PDMW-26T	2	4.77	7.27	8.0	3.0	8.0	1.77	-3.23	1.99	5.28
PDMW-27R	2	6.42	8.78	9.5	1.5	9.5	4.92	-3.08	4.00	4.78
PDMW-29D	2	5.58	8.56	49.5	44.5	49.5	-38.92	-43.92	6.95	1.61
PDMW-30P	2	6.63	9.13	8.0	3.0	8.0	3.63	-1.37	4.71	4.42
PDMW-31R2	2	5.47	8.23	8.0	1.0	8.0	4.47	-2.53	3.08	5.15
PDMW-32R	2	7.31	9.40	7.5	2.5	7.5	4.81	-0.19	4.38	5.02
PDMW-33R2	2	5.40	8.48	15.0	10.0	15.0	-4.60	-9.60	3.72	4.76
PDMW-35P	1	5.73	9.53	25.0	15.0	25.0	-9.27	-19.27	5.01	4.52
PDMW-36P	1	6.18	9.92	12.0	2.0	12.0	4.18	-5.82	5.26	4.66
PDMW-37P	1	6.93	9.75	8.0	3.0	8.0	3.93	-1.07	5.05	4.70
PDMW-38P	1	6.47	10.37	12.0	2.0	12.0	4.47	-5.53	5.42	4.95
PDMW-40R	2	6.26	8.06	22.0	15.0	22.0	-8.74	-15.74	4.92	3.14
PDMW-45R	1	6.03	8.59	10.0	2.0	10.0	4.03	-3.97	3.99	4.60
PDMW-46	2	6.34	9.82	10.0	5.0	10.0	1.34	-3.66	5.13	4.69
PDMW-47	2	5.80	8.52	10.0	5.0	10.0	0.80	-4.20	4.48	4.04
PDMW-48	2	3.70	6.45	7.0	2.0	7.0	1.70	-3.30	3.02	3.43
PDMW-49	2	2.85	5.25	7.0	2.0	7.0	0.85	-4.15	2.89	2.36
PDMW-50	2	5.00	7.80	7.0	2.0	7.0	3.00	-2.00	3.67	4.13
PDMW-51	2	4.26	7.46	7.0	2.0	7.0	2.26	-2.74	3.7	3.76
PDMW-52	2	4.97	7.73	7.0	2.0	7.0	2.97	-2.03	4.03	3.70
PDMW-53	2	NA	NA	8.0	3.0	8.0	NA	NA	4.43	NA
TMW-1	2	5.13	8.45	13.0	8.0	13.0	-2.87	-7.87	3.08	5.37
TMW-4R	2	6.47	9.24	9.0	1.0	9.0	5.47	-2.53	4.44	4.80
EW-1	4	6.68	8.45	12.0	2.0	12.0	4.68	-5.32	3.53	4.92
MW-201	4	7.01	10.27	9.5	2.0	9.5	5.01	-2.49	5.03	5.24
MW-202	4	6.35	9.15	8.0	2.0	8.0	4.35	-1.65	4.17	4.98
MW-203	4	6.83	10.00	10.0	2.0	10.0	4.83	-3.17	5.07	4.93
MW-204	2	6.64	9.13	10.0	2.0	10.0	4.64	-3.36	3.63	5.50

Notes:

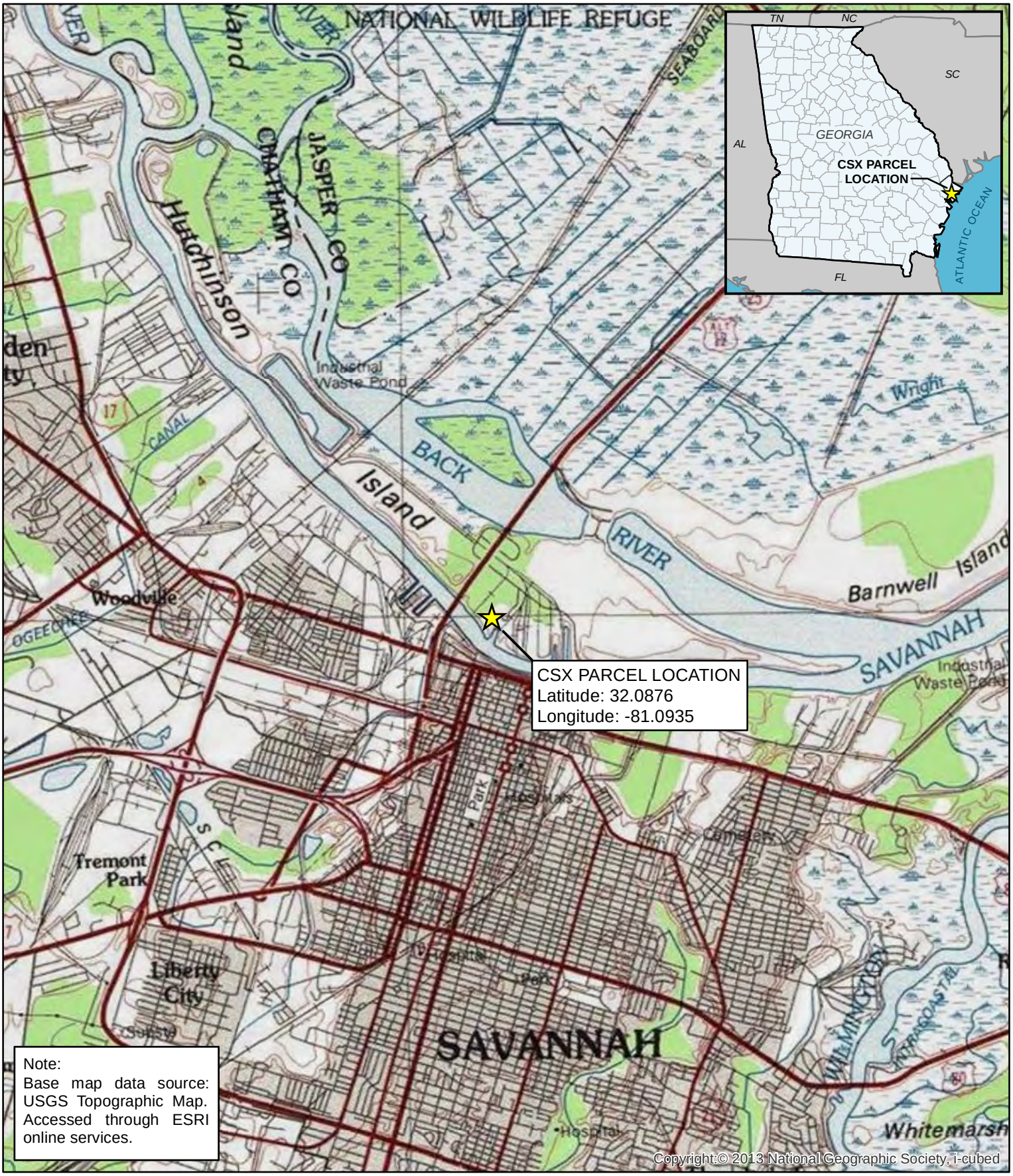
bgs = below ground surface
msl = mean sea level
ft = feet

Table 7
Historic Water Level Data

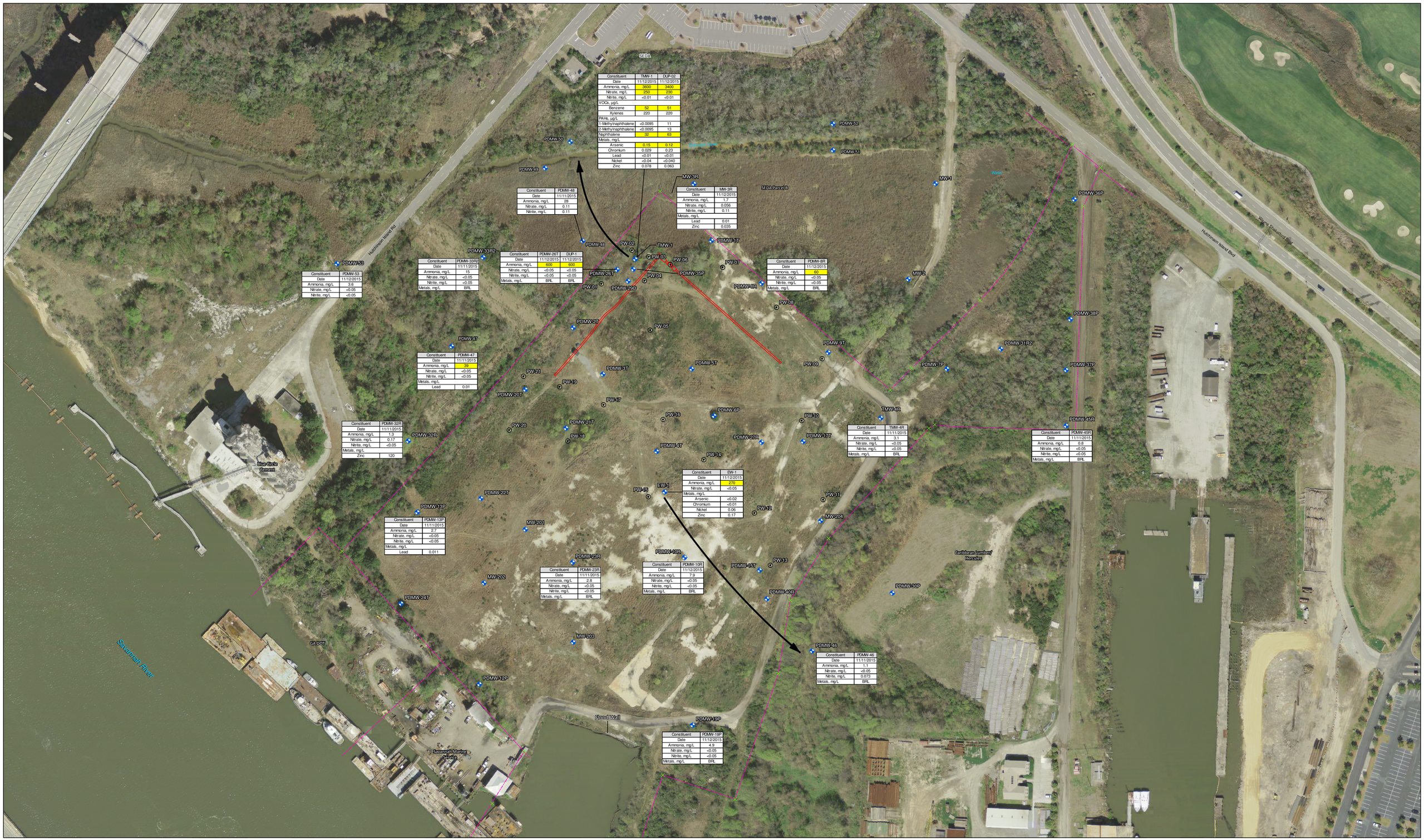
WELL ID	Top of Casing Elevation (ft msl)	12/10/2013		6/3/2014		11/6/2014		5/18/2015		11/10/2015	
		Depth to water (ft below TOC)	Water Table Elevation (ft msl)	Depth to water (ft below TOC)	Water Table Elevation (ft msl)	Depth to water (ft below TOC)	Water Table Elevation (ft msl)	Depth to water (ft below TOC)	Water Table Elevation (ft msl)	Depth to water (ft below TOC)	Water Table Elevation (ft msl)
MW-1	7.67	3.71	3.96	3.44	4.23	3.6	4.17	3.37	4.30	3.28	4.39
MW-2	7.90	Not Found	NA	Not Found	NA	3.64	4.26	3.05	4.85	3.08	4.82
MW-3R	5.90	1.12	4.78	2.21	3.69	2.3	3.60	2.05	3.85	2.00	3.90
PDMW-1T	7.71	2.68	5.03	2.72	4.99	2.94	4.77	2.63	5.08	2.44	5.27
PDMW-2T	7.37	2.03	5.34	2.49	4.88	3.28	4.09	2.07	5.30	1.90	5.47
PDMW-3T	9.55	3.96	5.59	4.94	4.61	5.42	4.13	4.85	4.70	3.33	6.22
PDMW-4T	9.35	3.55	5.8	5.07	4.28	5.2	4.15	4.58	4.77	2.69	6.66
PDMW-5T	8.09	2.29	5.8	Damaged	NA	4.05	4.04	3.18	4.91	2.00	6.09
PDMW-6P	9.24	3.47	5.77	4.96	4.28	5.18	4.06	4.55	4.69	2.91	6.33
PDMW-7P	7.24	2.36	4.88	2.86	4.38	2.98	4.26	2.51	4.73	2.30	4.94
PDMW-8R	9.08	3.34	5.74	4.3	4.78	4.85	4.23	3.98	5.10	3.34	5.74
PDMW-9T	9.38	3.83	5.55	4.65	4.73	5.11	4.27	4.31	5.07	3.37	6.01
PDMW-10R	9.44	3.79	5.65	5.02	4.42	5.37	4.07	4.4	5.04	2.75	6.69
PDMW-12P	9.42	4.27	5.15	5.04	4.38	5.02	4.40	4.41	5.01	2.47	6.95
PDMW-13P	8.09	3.07	5.02	3.67	4.42	3.8	4.29	3.13	4.96	2.10	5.99
PDMW-14TR	8.00	Damaged	NA	Destroyed	NA	Destroyed	NA	Destroyed	NA	Destroyed	NA
PDMW-15T	8.44	2.67	5.77	4.03	4.41	4.32	4.12	3.24	5.20	1.92	6.52
PDMW-17T	9.10	3.18	5.92	4.67	4.43	4.97	4.13	4.2	4.90	2.56	6.54
PDMW-19P	9.27	4.38	4.89	5.3	3.97	5.32	3.95	4.45	4.82	2.63	6.64
PDMW-20T	7.64	2.11	5.53	2.68	4.96	3.31	4.33	2.42	5.22	1.87	5.77
PDMW-21T	7.09	4.22	2.87	5.41	1.68	5.71	1.38	5	2.09	3.66	3.43
PDMW-22T	8.63	3.29	5.34	4.11	4.52	4.31	4.32	3.56	5.07	2.41	6.22
PDMW-23R	10.07	4.72	5.35	5.62	4.45	5.86	4.21	5.11	4.96	3.16	6.91
PDMW-24T	9.19	4.25	4.94	4.72	4.47	4.81	4.38	4.21	4.98	2.81	6.38
PDMW-26T	7.27	2.07	5.2	2.26	5.01	2.85	4.42	1.99	5.28	1.81	5.46
PDMW-27R	8.78	2.94	5.84	4.46	4.32	4.82	3.96	4	4.78	2.45	6.33
PDMW-29D	8.56	6.3	2.26	5.88	2.68	7.5	1.06	6.95	1.61	5.12	3.44
PDMW-30P	9.13	6.15	2.98	6.08	3.05	5.96	3.17	4.71	4.42	4.19	4.94
PDMW-31R2	8.23	3.13	5.1	3.92	4.31	4.11	4.12	3.08	5.15	2.92	5.31
PDMW-32R	9.40	4.54	4.86	4.92	4.48	5.12	4.28	4.38	5.02	3.56	5.84
PDMW-33R2	8.48	4.54	3.94	3.98	4.50	4.03	4.45	3.72	4.76	3.31	5.17
PDMW-35P	9.53	5.08	4.45	5.23	4.30	5.02	4.51	5.01	4.52	4.77	4.76
PDMW-36P	9.92	4.99	4.93	5.63	4.29	5.51	4.41	5.26	4.66	5.05	4.87
PDMW-37P	9.75	4.45	5.3	5.82	3.93	5.77	3.98	5.05	4.70	4.21	5.54
PDMW-38P	10.37	4.78	5.59	6.12	4.25	6.07	4.30	5.42	4.95	4.85	5.52
PDMW-40R	8.06	5.21	2.85	5.27	2.79	5.52	2.54	4.92	3.14	4.16	3.90
PDMW-45R	8.59	2.94	5.65	4.92	3.67	4.92	3.67	3.99	4.60	2.68	5.91
PDMW-46	9.82	Not Installed	Not Measured	5.81	4.01	6.46	3.36	5.13	4.69	5.83	3.99
PDMW-47	8.52	Not Installed	Not Measured	4.18	4.34	5.47	3.05	4.48	4.04	3.57	4.95
PDMW-48	6.45	Not Installed	Not Measured	4.51	1.94	3.1	3.35	3.02	3.43	3.09	3.36
PDMW-49	5.25	Not Installed	Not Measured	3.12	2.13	2.55	2.70	2.89	2.39	2.83	2.42
PDMW-50	7.80	Not Installed	Not Measured	4.4	3.40	3.91	3.89	3.67	4.13	3.52	4.28
PDMW-51	7.46	Not Installed	Not Measured	4.16	3.30	4.41	3.05	3.7	3.76	3.75	3.71
PDMW-52	7.73	Not Installed	Not Measured	4.42	3.31	3.58	4.15	4.03	3.70	3.66	4.07
TMW-1	8.45	3.44	1.95	3.44	5.01	4.1	4.35	3.08	5.37	2.88	5.57
TMW-4R	9.24	4.81	3.36	4.81	4.43	5.4	3.84	4.44	4.80	2.81	6.43
EW-1	8.45	2.48	5.97	2.48	5.97	4.36	4.09	3.53	4.92	1.72	6.73
MW-201	10.27	4.98	5.29	4.98	5.29	5.7	4.57	5.03	5.24	3.40	6.87
MW-202	9.15	4.09	5.06	4.09	5.06	4.81	4.34	4.17	4.98	2.53	6.62
MW-203	10.00	4.87	5.13	4.87	5.13	5.7	4.30	5.07	4.93	3.09	6.91
MW-204	9.13	3.48	5.65	3.48	5.65	5.5	3.63	3.63	5.50	2.72	6.41

TOC - Top of Casing
MSL - Mean Sea Level

FIGURES



Amec Foster Wheeler Environment & Infrastructure **3800 Ezell Road Suite 100** **Nashville, Tennessee 37211**	N	**CSX Transportation, Inc.**	**FIGURE 1** **CSX Parcel Location** **HUTCHINSON ISLAND** **SAVANNAH, GEORGIA**
0 0.5 1 2 3 Miles	07/21/2015	Drawn: JNR	FILE: CSXT_Hutch_Is_Site_Loc_Topo_Map.mxd
	REV:	CHK: JJ	PROJ: 6-4300-5245



Constituent	TMW-1	DUP-02
Date	11/12/2015	11/12/2015
Ammonia, mg/L	3600	3400
Nitrate, mg/L	250	230
Nitrite, mg/L	<0.01	<0.01
VOCs, µg/L		
Benzene	52	51
Xylenes	220	220
PAHs, µg/L		
1-Methylnaphthalene	<0.0095	11
2-Methylnaphthalene	<0.0095	13
Naphthalene	32	63
Metals, mg/L		
Arsenic	0.15	0.12
Chromium	0.029	0.23
Lead	<0.01	<0.01
Nickel	<0.04	<0.040
Zinc	0.078	0.063

Constituent	PDMW-48
Date	11/11/2015
Ammonia, mg/L	28
Nitrate, mg/L	0.11
Nitrite, mg/L	0.11

Constituent	MW-3R
Date	11/12/2015
Ammonia, mg/L	1.7
Nitrate, mg/L	0.056
Nitrite, mg/L	0.11
Metals, mg/L	
Lead	0.01
Zinc	0.035

Constituent	PDMW-26T	DUP-1
Date	11/12/2015	11/12/2015
Ammonia, mg/L	600	600
Nitrate, mg/L	<0.05	<0.05
Nitrite, mg/L	<0.05	<0.05
Metals, mg/L	BRL	BRL

Constituent	PDMW-8R
Date	11/12/2015
Ammonia, mg/L	60
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	PDMW-33R2
Date	11/11/2015
Ammonia, mg/L	15
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	PDMW-53
Date	11/12/2015
Ammonia, mg/L	3.6
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05

Constituent	PDMW-47
Date	11/11/2015
Ammonia, mg/L	39
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	
Lead	0.01

Constituent	PDMW-32R
Date	11/11/2015
Ammonia, mg/L	1.3
Nitrate, mg/L	0.17
Nitrite, mg/L	<0.05
Metals, mg/L	
Zinc	120

Constituent	TMW-4R
Date	11/11/2015
Ammonia, mg/L	3.1
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	PDMW-45R
Date	11/11/2015
Ammonia, mg/L	0.8
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	EW-1
Date	11/12/2015
Ammonia, mg/L	270
Nitrate, mg/L	<0.05
Metals, mg/L	
Arsenic	<0.02
Chromium	<0.01
Nickel	0.06
Zinc	0.17

Constituent	PDMW-13P
Date	11/11/2015
Ammonia, mg/L	2.7
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	
Lead	0.011

Constituent	PDMW-23R
Date	11/11/2015
Ammonia, mg/L	2.8
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	PDMW-10R
Date	11/12/2015
Ammonia, mg/L	7.9
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Constituent	PDMW-46
Date	11/11/2015
Ammonia, mg/L	1.1
Nitrate, mg/L	<0.05
Nitrite, mg/L	0.073
Metals, mg/L	BRL

Constituent	PDMW-19P
Date	11/12/2015
Ammonia, mg/L	4.9
Nitrate, mg/L	<0.05
Nitrite, mg/L	<0.05
Metals, mg/L	BRL

Amec Foster Wheeler
Environment & Infrastructure
3800 Ezell Road Suite 100
Nashville, Tennessee 37211

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CSX Transportation, Inc.

0 100 200 400 600 800 Feet

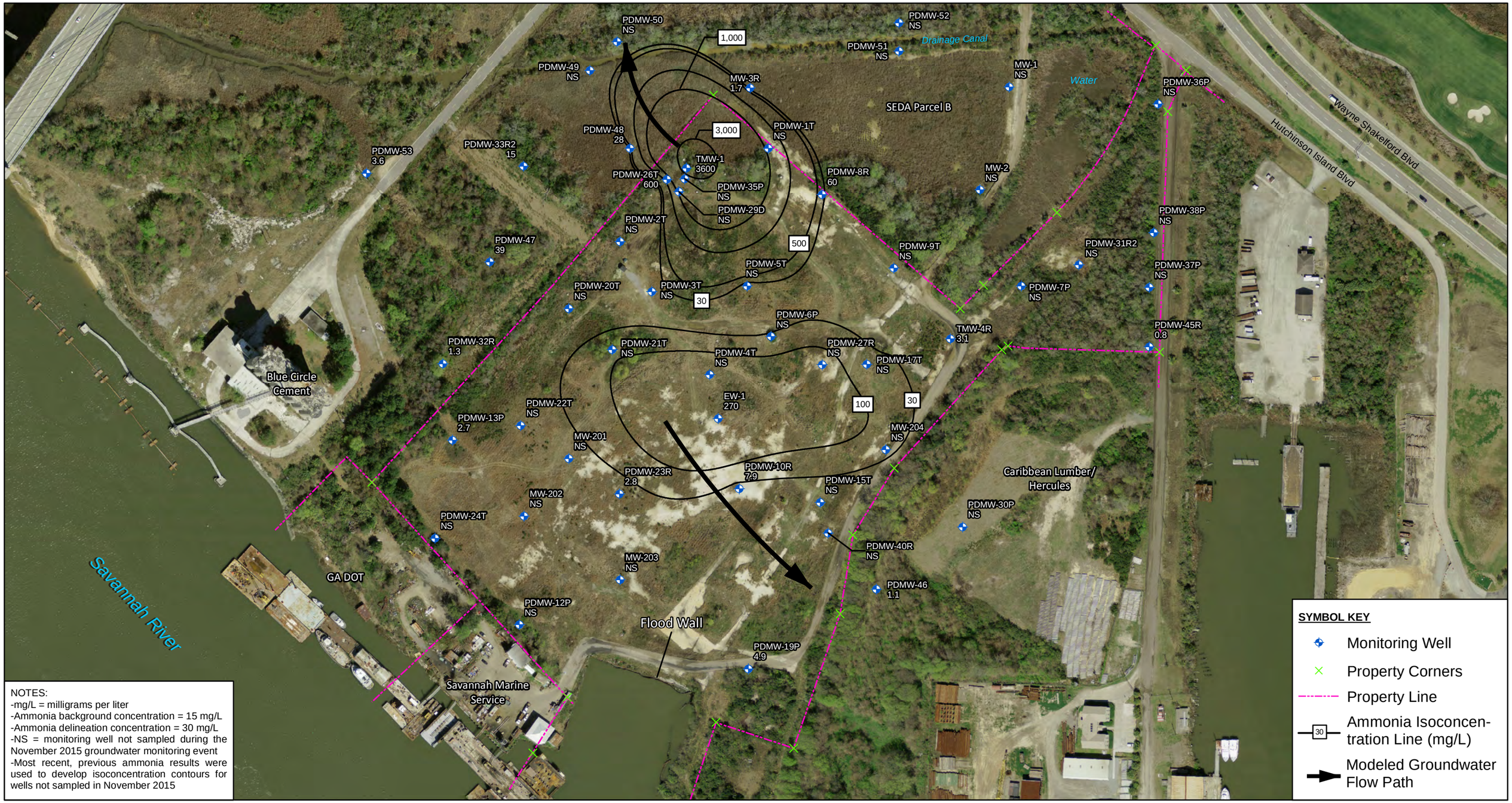
FIGURE 2
Summary of Groundwater Analytical Results - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

01/06/2016	REV:	CSXT_Hutch_GW_SW_Results_Dec2015Rpt.mxd	
Drawn: JNR	PROJ: 6-4300-5245	March 2011 aerial data source: USGS; obtained through the National Map Online Data Viewer	

NOTES:
Results are presented in milligrams per liter (mg/L)
-Shaded values indicate exceedance of applicable Risk Reduction Standard

SYMBOL KEY

- Extraction Well
- Monitoring Well
- Property Corners
- Property Line
- Trench
- Modeled Groundwater Flow Path



NOTES:
-mg/L = milligrams per liter
-Ammonia background concentration = 15 mg/L
-Ammonia delineation concentration = 30 mg/L
-NS = monitoring well not sampled during the November 2015 groundwater monitoring event
-Most recent, previous ammonia results were used to develop isoconcentration contours for wells not sampled in November 2015

SYMBOL KEY

- Monitoring Well
- Property Corners
- Property Line
- Ammonia Isoconcentration Line (mg/L) (30)
- Modeled Groundwater Flow Path

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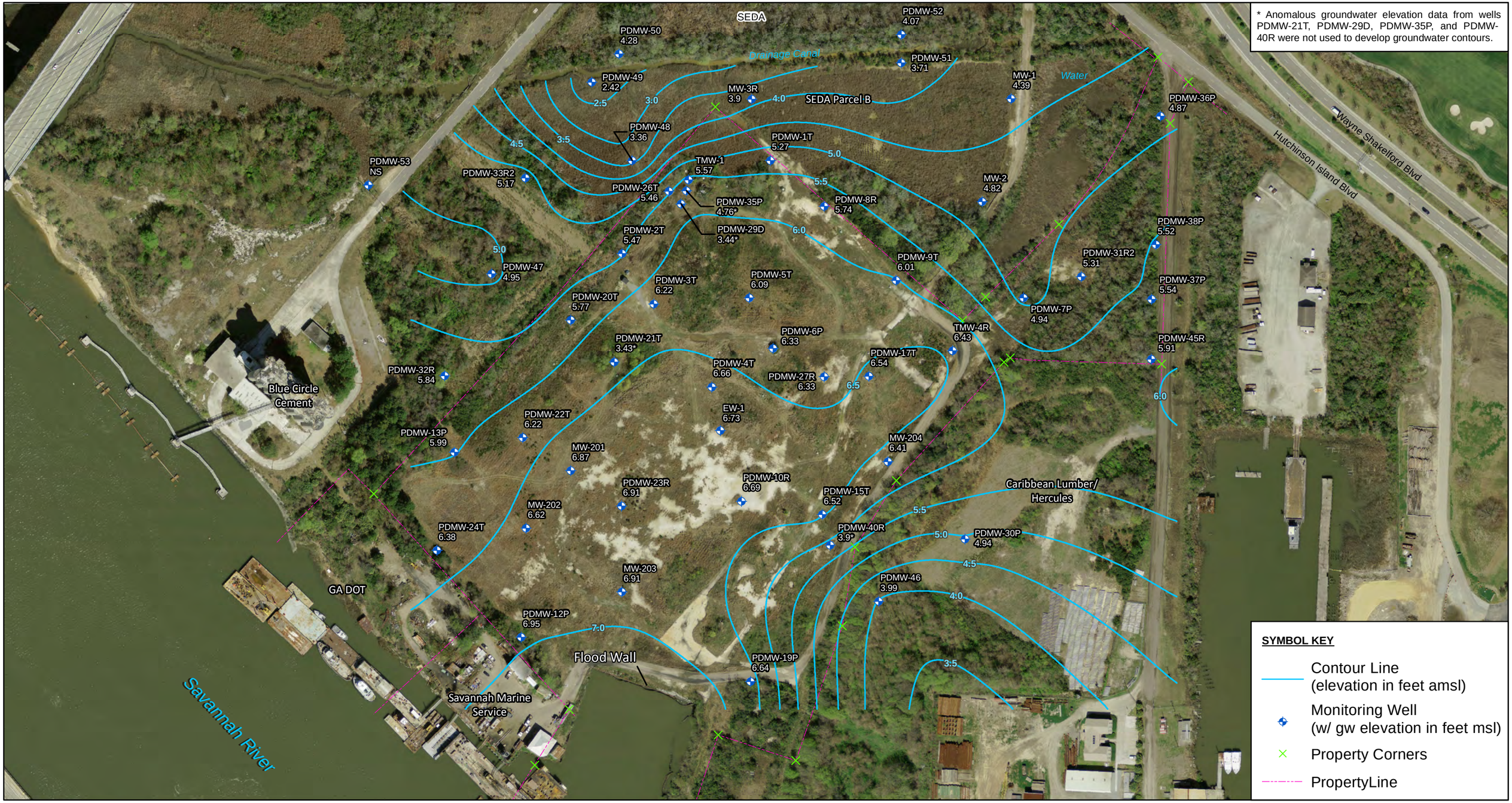
FIGURE 3

Ammonia Isoconcentration Map - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

0 200 400 800 1,200 1,600 Feet

01/12/2016	REV:	File: CSXT_Hutch_Is_Ammonia_Conc_Dec2015Rpt.mxd
Drawn: JBO	PROJ: 6-4300-5245	March 2011 aerial data source: USGS; obtained through The National Map online GIS Data Viewer.

* Anomalous groundwater elevation data from wells PDMW-21T, PDMW-29D, PDMW-35P, and PDMW-40R were not used to develop groundwater contours.



SYMBOL KEY

- Contour Line (elevation in feet amsl)
- Monitoring Well (w/ gw elevation in feet msl)
- Property Corners
- PropertyLine

Amec Foster Wheeler **Environment & Infrastructure** 3800 Ezell Road Suite 100 Nashville, Tennessee 37211		N	**CSX Transportation, Inc.**	**FIGURE 4** **November 2015 Potentiometric Surface Map** **Hutchinson Island HSI - 10101 - Savannah, Georgia**
0 200 400 800 1,200 1,600 Feet			01/05/2016	REV:
			Drawn: JNR	PROJ: 6-4300-5245

CSXT_Hutch_Is_Nov2015_GW_Contour_Map_Dec2015.mxd

March 2011 aerial data source: USGS; obtained through The National Map online GIS Data Viewer.

APPENDIX A
LABORATORY DATA REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-118925-1
TestAmerica SDG: ENV0000120647/R9415575
Client Project/Site: CSX GA, Hutchinson Island, VRP

For:
AMEC Foster Wheeler E & I, Inc
2677 Buford Highway
Atlanta, Georgia 30324

Attn: Aaron Getchell

Authorized for release by:
11/20/2015 5:05:22 PM

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-118925-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: AMEC Foster Wheeler E & I, Inc
Project: CSX GA, Hutchinson Island, VRP
Report Number: 680-118925-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/12/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

METALS (ICP)

Samples PDMW-13P_11112015 (680-118925-1), PDMW-32R_11112015 (680-118925-3), PDMW-33R2_11112015 (680-118925-4), PDMW-47_11112015 (680-118925-6), PDMW-23R_11112015 (680-118925-7), PDMW-46_11112015 (680-118925-8) and PDMW-45R_11112015 (680-118925-9) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/16/2015 and analyzed on 11/17/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA

Samples PDMW-13P_11112015 (680-118925-1), PDMW-53_11112015 (680-118925-2), PDMW-32R_11112015 (680-118925-3), PDMW-33R2_11112015 (680-118925-4), PDMW-48_11112015 (680-118925-5), PDMW-47_11112015 (680-118925-6), PDMW-23R_11112015 (680-118925-7), PDMW-46_11112015 (680-118925-8) and PDMW-45R_11112015 (680-118925-9) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 11/19/2015 and 11/20/2015.

Samples PDMW-13P_11112015 (680-118925-1)[2X], PDMW-53_11112015 (680-118925-2)[2X], PDMW-33R2_11112015 (680-118925-4)[10X], PDMW-48_11112015 (680-118925-5)[20X], PDMW-47_11112015 (680-118925-6)[20X] and PDMW-23R_11112015 (680-118925-7)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples PDMW-13P_11112015 (680-118925-1), PDMW-53_11112015 (680-118925-2), PDMW-32R_11112015 (680-118925-3), PDMW-33R2_11112015 (680-118925-4), PDMW-48_11112015 (680-118925-5), PDMW-47_11112015 (680-118925-6), PDMW-23R_11112015 (680-118925-7), PDMW-46_11112015 (680-118925-8) and PDMW-45R_11112015 (680-118925-9) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/12/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-118925-1	PDMW-13P_11112015	Water	11/11/15 10:12	11/12/15 08:30
680-118925-2	PDMW-53_11112015	Water	11/11/15 09:55	11/12/15 08:30
680-118925-3	PDMW-32R_11112015	Water	11/11/15 11:12	11/12/15 08:30
680-118925-4	PDMW-33R2_11112015	Water	11/11/15 10:55	11/12/15 08:30
680-118925-5	PDMW-48_11112015	Water	11/11/15 16:07	11/12/15 08:30
680-118925-6	PDMW-47_11112015	Water	11/11/15 11:55	11/12/15 08:30
680-118925-7	PDMW-23R_11112015	Water	11/11/15 12:17	11/12/15 08:30
680-118925-8	PDMW-46_11112015	Water	11/11/15 15:10	11/12/15 08:30
680-118925-9	PDMW-45R_11112015	Water	11/11/15 16:00	11/12/15 08:30

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-13P_11112015
Date Collected: 11/11/15 10:12
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-1
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 11:59	1
Lead	**11**		10		ug/L		11/16/15 09:16	11/17/15 11:59	1
Nickel	40	U	40		ug/L		11/16/15 09:16	11/17/15 11:59	1
Zinc	20	U	20		ug/L		11/16/15 09:16	11/17/15 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**2.7**		0.50		mg/L			11/20/15 09:00	2
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 12:44	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:44	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:44	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-53_11112015
Date Collected: 11/11/15 09:55
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**3.6**		0.50		mg/L			11/20/15 09:00	2
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 12:48	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:48	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:48	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-32R_11112015
Date Collected: 11/11/15 11:12
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-3
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:02	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 12:02	1
Nickel	40	U	40		ug/L		11/16/15 09:16	11/17/15 12:02	1
Zinc	**120**		20		ug/L		11/16/15 09:16	11/17/15 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**1.3**		0.25		mg/L			11/20/15 08:50	1
Nitrate as N	**0.17**		0.050		mg/L			11/12/15 12:50	1
Nitrate Nitrite as N	**0.17**		0.050		mg/L			11/12/15 12:50	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:50	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-33R2_11112015
Date Collected: 11/11/15 10:55
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-4
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:18	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**15**		2.5		mg/L			11/20/15 09:10	10
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 12:57	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:57	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:57	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-48_11112015
Date Collected: 11/11/15 16:07
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-5
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**28**		5.0		mg/L			11/20/15 09:33	20
Nitrate as N	**0.11**		0.050		mg/L			11/12/15 12:59	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:59	1
Nitrite as N	**0.11**		0.050		mg/L			11/12/15 12:59	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-47_11112015

Lab Sample ID: 680-118925-6

Date Collected: 11/11/15 11:55
Matrix: Water
Date Received: 11/12/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:21	1
Lead	**10**		10		ug/L		11/16/15 09:16	11/17/15 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**39**		5.0		mg/L			11/20/15 09:10	20
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 13:00	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:00	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:00	1

Client Sample ID: PDMW-23R_11112015

Lab Sample ID: 680-118925-7

Date Collected: 11/11/15 12:17
Matrix: Water
Date Received: 11/12/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:25	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 12:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**2.8**		0.50		mg/L			11/20/15 09:10	2
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 13:01	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:01	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:01	1

Client Sample ID: PDMW-46_11112015

Lab Sample ID: 680-118925-8

Date Collected: 11/11/15 15:10

Matrix: Water

Date Received: 11/12/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:29	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 12:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**1.1**		0.25		mg/L			11/20/15 08:50	1
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 13:02	1
Nitrate Nitrite as N	**0.067**		0.050		mg/L			11/12/15 13:02	1
Nitrite as N	**0.073**		0.050		mg/L			11/12/15 13:02	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-45R_11112015

Lab Sample ID: 680-118925-9

Date Collected: 11/11/15 16:00
Matrix: Water
Date Received: 11/12/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 12:33	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 12:33	1
Nickel	40	U	40		ug/L		11/16/15 09:16	11/17/15 12:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**0.80**		0.25		mg/L			11/19/15 19:34	1
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 13:03	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:03	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 13:03	1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-410498/1-A
Matrix: Water
Analysis Batch: 410766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/16/15 09:16	11/17/15 10:31	1
Lead	10	U	10		ug/L		11/16/15 09:16	11/17/15 10:31	1
Nickel	40	U	40		ug/L		11/16/15 09:16	11/17/15 10:31	1
Zinc	20	U	20		ug/L		11/16/15 09:16	11/17/15 10:31	1

Lab Sample ID: LCS 680-410498/2-A
Matrix: Water
Analysis Batch: 410766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	94.7		ug/L		95	80 - 120
Lead	500	495		ug/L		99	80 - 120
Nickel	100	98.4		ug/L		98	80 - 120
Zinc	100	98.1		ug/L		98	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-411342/29
Matrix: Water
Analysis Batch: 411342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 19:43	1

Lab Sample ID: LCS 680-411342/4
Matrix: Water
Analysis Batch: 411342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-411342/6
Matrix: Water
Analysis Batch: 411342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.06		mg/L		106	90 - 110	1	30

Lab Sample ID: MB 680-411343/13
Matrix: Water
Analysis Batch: 411343

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 19:43	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 680-411343/17
Matrix: Water
Analysis Batch: 411343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: LCSD 680-411343/35
Matrix: Water
Analysis Batch: 411343

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	1.00	1.05		mg/L		105	90 - 110	0	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-410169/13
Matrix: Water
Analysis Batch: 410169

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050		mg/L			11/12/15 12:39	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:39	1
Nitrite as N	0.050	U	0.050		mg/L			11/12/15 12:39	1

Lab Sample ID: LCS 680-410169/16
Matrix: Water
Analysis Batch: 410169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.500	0.496		mg/L		99	75 - 125
Nitrate Nitrite as N	1.00	0.998		mg/L		100	90 - 110
Nitrite as N	0.500	0.502		mg/L		100	90 - 110

Lab Sample ID: 680-118925-1 MS
Matrix: Water
Analysis Batch: 410169

Client Sample ID: PDMW-13P_11112015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.050	U	0.500	0.519		mg/L		104	75 - 125
Nitrate Nitrite as N	0.050	U	1.00	1.04		mg/L		104	90 - 110
Nitrite as N	0.050	U	0.500	0.521		mg/L		104	90 - 110

Lab Sample ID: 680-118925-1 MSD
Matrix: Water
Analysis Batch: 410169

Client Sample ID: PDMW-13P_11112015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.050	U	0.500	0.539		mg/L		108	75 - 125	4	30
Nitrate Nitrite as N	0.050	U	1.00	1.06		mg/L		106	90 - 110	1	10
Nitrite as N	0.050	U	0.500	0.521		mg/L		104	90 - 110	0	10

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-118925-2 DU
Matrix: Water
Analysis Batch: 410169

Client Sample ID: PDMW-53_11112015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.050	U		0.050	U	mg/L				NC	30
Nitrate Nitrite as N	0.050	U		0.050	U	mg/L				NC	10
Nitrite as N	0.050	U		0.050	U	mg/L				NC	10

QC Association Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Metals

Prep Batch: 410498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118925-1	PDMW-13P_11112015	Total/NA	Water	3010A	
680-118925-3	PDMW-32R_11112015	Total/NA	Water	3010A	
680-118925-4	PDMW-33R2_11112015	Total/NA	Water	3010A	
680-118925-6	PDMW-47_11112015	Total/NA	Water	3010A	
680-118925-7	PDMW-23R_11112015	Total/NA	Water	3010A	
680-118925-8	PDMW-46_11112015	Total/NA	Water	3010A	
680-118925-9	PDMW-45R_11112015	Total/NA	Water	3010A	
LCS 680-410498/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-410498/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 410766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118925-1	PDMW-13P_11112015	Total/NA	Water	6010C	410498
680-118925-3	PDMW-32R_11112015	Total/NA	Water	6010C	410498
680-118925-4	PDMW-33R2_11112015	Total/NA	Water	6010C	410498
680-118925-6	PDMW-47_11112015	Total/NA	Water	6010C	410498
680-118925-7	PDMW-23R_11112015	Total/NA	Water	6010C	410498
680-118925-8	PDMW-46_11112015	Total/NA	Water	6010C	410498
680-118925-9	PDMW-45R_11112015	Total/NA	Water	6010C	410498
LCS 680-410498/2-A	Lab Control Sample	Total/NA	Water	6010C	410498
MB 680-410498/1-A	Method Blank	Total/NA	Water	6010C	410498

General Chemistry

Analysis Batch: 410169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118925-1	PDMW-13P_11112015	Total/NA	Water	353.2	
680-118925-1 MS	PDMW-13P_11112015	Total/NA	Water	353.2	
680-118925-1 MSD	PDMW-13P_11112015	Total/NA	Water	353.2	
680-118925-2	PDMW-53_11112015	Total/NA	Water	353.2	
680-118925-2 DU	PDMW-53_11112015	Total/NA	Water	353.2	
680-118925-3	PDMW-32R_11112015	Total/NA	Water	353.2	
680-118925-4	PDMW-33R2_11112015	Total/NA	Water	353.2	
680-118925-5	PDMW-48_11112015	Total/NA	Water	353.2	
680-118925-6	PDMW-47_11112015	Total/NA	Water	353.2	
680-118925-7	PDMW-23R_11112015	Total/NA	Water	353.2	
680-118925-8	PDMW-46_11112015	Total/NA	Water	353.2	
680-118925-9	PDMW-45R_11112015	Total/NA	Water	353.2	
LCS 680-410169/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-410169/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 411342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118925-1	PDMW-13P_11112015	Total/NA	Water	350.1	
680-118925-2	PDMW-53_11112015	Total/NA	Water	350.1	
680-118925-3	PDMW-32R_11112015	Total/NA	Water	350.1	
680-118925-4	PDMW-33R2_11112015	Total/NA	Water	350.1	
680-118925-5	PDMW-48_11112015	Total/NA	Water	350.1	
680-118925-6	PDMW-47_11112015	Total/NA	Water	350.1	
LCS 680-411342/4	Lab Control Sample	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 411342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-411342/6	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 680-411342/29	Method Blank	Total/NA	Water	350.1	

Analysis Batch: 411343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118925-7	PDMW-23R_11112015	Total/NA	Water	350.1	
680-118925-8	PDMW-46_11112015	Total/NA	Water	350.1	
680-118925-9	PDMW-45R_11112015	Total/NA	Water	350.1	
LCS 680-411343/17	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-411343/35	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 680-411343/13	Method Blank	Total/NA	Water	350.1	

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-13P_11112015

Lab Sample ID: 680-118925-1
Date Collected: 11/11/15 10:12
Matrix: Water
Date Received: 11/12/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 11:59	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		2	2 mL	2 mL	411342	11/20/15 09:00	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 12:44	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-53_11112015

Lab Sample ID: 680-118925-2
Date Collected: 11/11/15 09:55
Matrix: Water
Date Received: 11/12/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		2	2 mL	2 mL	411342	11/20/15 09:00	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 12:48	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-32R_11112015

Lab Sample ID: 680-118925-3
Date Collected: 11/11/15 11:12
Matrix: Water
Date Received: 11/12/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:02	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411342	11/20/15 08:50	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 12:50	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-33R2_11112015

Lab Sample ID: 680-118925-4
Date Collected: 11/11/15 10:55
Matrix: Water
Date Received: 11/12/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:18	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		10	2 mL	2 mL	411342	11/20/15 09:10	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 12:57	GRX	TAL SAV
	Instrument ID: LACHAT2									

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-48_11112015

Date Collected: 11/11/15 16:07
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		20	2 mL	2 mL	411342	11/20/15 09:33	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 12:59	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-47_11112015

Date Collected: 11/11/15 11:55
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:21	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		20	2 mL	2 mL	411342	11/20/15 09:10	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 13:00	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-23R_11112015

Date Collected: 11/11/15 12:17
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:25	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		2	2 mL	2 mL	411343	11/20/15 09:10	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 13:01	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-46_11112015

Date Collected: 11/11/15 15:10
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:29	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411343	11/20/15 08:50	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 13:02	GRX	TAL SAV
	Instrument ID: LACHAT2									

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-45R_11112015

Date Collected: 11/11/15 16:00
Date Received: 11/12/15 08:30

Lab Sample ID: 680-118925-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410498	11/16/15 09:16	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410766	11/17/15 12:33	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411343	11/19/15 19:34	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410169	11/12/15 13:03	GRX	TAL SAV
	Instrument ID: LACHAT2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

CSX TRANSPORTATION — CHAIN OF CUSTODY

LABORATORY INFORMATION

- [x] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
- [ ] TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-9396 F: 330-497-0772
- [ ] TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
- [ ] TestAmerica Pensacola - 3355 McLemore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
- [ ] TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7991
- [ ] TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

COC #

SHIPMENT INFORMATION

Shipment Method: Lab courier

Shipment Tracking No.

CSXT PROJECT INFORMATION

CSXT Project Number: 9415575 | Proj. State (State of Origin): GA | Proj City: Savannah

CSXT Project Name: Hutchinson Island

CSXT Contact: Sam Ross | LWON: TBD

CONSULTANT INFORMATION

Project #: 6-4300-5246

Company: Amec Foster Wheeler | PM: Aaron Getchell

Address: 1101 Channelside Drive | Email: aaron.getchell@amecfw.com

City, State, Zip: Tampa, FL 33602 | Phone: (813)636-1541 | Fax: (813)289-5474

Turnaround Time:

- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days
- [x] Standard 14 Days
- [ ] Other

Deliverables:

- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv:
- [ ] EDD Required, Format:

Preservative Codes: 0 = No Preservatives; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers: Number & Type	Sample Collection: Date	Time	Sampler	Filtered: Y or N	Type: Comp or Grab	Matrix: Code	Note ➡ Pres. Code	METHODS FOR ANALYSIS: Ammonia	Nitrate & Nitrite	Arsenic	Lead	Nickel	Zinc	COMMENTS	LAB USE
PDMW-13P_11112015	4	11/11/2015	1012	JJ	N	G	GW		X	X	X	X	X	X		
PDMW-53_11112015	3	11/11/2015	0955	PG	N	G	GW		X	X						
PDMW-32R_11112015	4	11/11/2015	1112	JJ	N	G	GW		X	X	X	X	X	X		
PDMW-33R2_11112015	4	11/11/2015	1055	PG	N	G	GW		X	X	X	X				
PDMW-48_11112015	3	11/11/2015	1607	JJ	N	G	GW		X	X						
PDMW-47_11112015	4	11/11/2015	1155	PG	N	G	GW		X	X	X	X				
PDMW-23R_11112015	4	11/11/2015	1217	JJ	N	G	GW		X	X	X	X				
PDMW-46_11112015	4	11/11/2015	1510	PG	N	G	GW		X	X	X	X				
PDMW-45R_11112015	4	11/11/2015	1600	PG	N	G	GW		X	X	X	X	X			

680-118925 Chain of Custody

	Date/Time		Date/Time	
Relinquished By:	11/12/15 0815	Received By:	11/12/15 0815	Comments & Special Analytical Requirements:
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received By Laboratory:	Date/Time: 11/13/15 08:30	Lab Remarks: 2.4/2.8	LAB USE: ☐ Yes ☐ No Custody Intact	Custody Seal #	LAB Log Number # 680-

ORIGINAL – RETURN TO LABORATORY WITH SAMPLES

INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

TAL-6006 (0509)

11/20/2015

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 680-118925-1
SDG Number: ENV0000120647/R9415575

Login Number: 118925
List Number: 1
Creator: White, Menica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118925-1
SDG: ENV0000120647/R9415575

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
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Tel: (912)354-7858

TestAmerica Job ID: 680-118974-1
TestAmerica SDG: ENV0000120647/R9415575
Client Project/Site: CSX GA, Hutchinson Island, VRP

For:
AMEC Foster Wheeler E & I, Inc
2677 Buford Highway
Atlanta, Georgia 30324

Attn: Aaron Getchell

Authorized for release by:
11/30/2015 4:56:08 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Job ID: 680-118974-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: AMEC Foster Wheeler E & I, Inc
Project: CSX GA, Hutchinson Island, VRP
Report Number: 680-118974-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 11/13/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 1.2º C and 1.2º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TMW-1_11122015 (680-118974-9), DUP-02_11122015 (680-118974-10), EBJ_11122015 (680-118974-12), FB_11122015 (680-118974-13) and TB_11122015 (680-118974-14) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/17/2015.

Method(s) 8260B: The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs), however, the pH was >2 when verified by the laboratory: TMW-1_11122015 (680-118974-9), TMW-1_11122015 (680-118974-9[MS]), TMW-1_11122015 (680-118974-9[MSD]) and DUP-02_11122015 (680-118974-10).

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (AQUEOUS)

Samples TMW-1_11122015 (680-118974-9), DUP-02_11122015 (680-118974-10), EBJ_11122015 (680-118974-12) and FB_11122015 (680-118974-13) were analyzed for Semivolatile Organic Compounds (Aqueous) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 11/17/2015 and 11/24/2015 and analyzed on 11/20/2015, 11/26/2015 and 11/27/2015.

Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: TMW-1_11122015 (680-118974-9). Re-extraction and/or re-analysis was performed with concurring results. The re-extraction was out of hold time. Both sets of data have been reported. The confirmation sample is qualified with an "H" flag.

Several analytes have recovery outside criteria low for the MS and/or MSD of sample TMW-1_11122015 (680-118974-9) in batch 680-411357. Indeno[1,2,3-cd]pyrene exceeded the RPD limit. Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples EW-1_11122015 (680-118974-1), PDMW-19P_11122015 (680-118974-2), PDMW-10R_11122015 (680-118974-3), TMW-4R_11122015 (680-118974-4), PDMW-26T_11122015 (680-118974-5), PDMW-8R_11122015 (680-118974-6), DUP-01_11122015 (680-118974-7), MW-3R_11122015 (680-118974-8), TMW-1_11122015 (680-118974-9), DUP-02_11122015 (680-118974-10), EBP_11122015 (680-118974-11), EBJ_11122015 (680-118974-12) and FB_11122015 (680-118974-13) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/17/2015 and 11/18/2015 and analyzed on 11/18/2015 and 11/19/2015.

Method(s) 3010A: The following samples were received unpreserved and were preserved upon receipt to the laboratory: PDMW-26T_11122015 (680-118974-5), DUP-01_11122015 (680-118974-7), TMW-1_11122015 (680-118974-9) and DUP-02_11122015 (680-118974-10). Regulatory documents require a 24-hour waiting period from the time of the addition of the acid preservative to the time of digestion.

Job ID: 680-118974-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

AMMONIA

Samples EW-1_11122015 (680-118974-1), PDMW-19P_11122015 (680-118974-2), PDMW-10R_11122015 (680-118974-3), TMW-4R_11122015 (680-118974-4), PDMW-26T_11122015 (680-118974-5), PDMW-8R_11122015 (680-118974-6), DUP-01_11122015 (680-118974-7), MW-3R_11122015 (680-118974-8), TMW-1_11122015 (680-118974-9), DUP-02_11122015 (680-118974-10), EBP_11122015 (680-118974-11), EBJ_11122015 (680-118974-12) and FB_11122015 (680-118974-13) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 11/19/2015 and 11/20/2015.

Method(s) 350.1: The reference method requires samples to be preserved to a pH of <2. The following samples were received at a pH of 6: TMW-1_11122015 (680-118974-9) and DUP-02_11122015 (680-118974-10). The samples were preserved to the appropriate pH in the laboratory.

Ammonia recovery is outside criteria low for the MS and outside criteria high for the MSD of sample TMW-1_11122015 (680-118974-9) in batch 680-411340. Refer to the QC report for details.

Samples EW-1_11122015 (680-118974-1)[200X], PDMW-19P_11122015 (680-118974-2)[5X], PDMW-10R_11122015 (680-118974-3)[5X], TMW-4R_11122015 (680-118974-4)[2X], PDMW-26T_11122015 (680-118974-5)[400X], PDMW-8R_11122015 (680-118974-6)[50X], DUP-01_11122015 (680-118974-7)[400X], TMW-1_11122015 (680-118974-9)[5000X] and DUP-02_11122015 (680-118974-10)[5000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

NITRATE-NITRITE AS NITROGEN

Samples EW-1_11122015 (680-118974-1), PDMW-19P_11122015 (680-118974-2), PDMW-10R_11122015 (680-118974-3), TMW-4R_11122015 (680-118974-4), PDMW-26T_11122015 (680-118974-5), PDMW-8R_11122015 (680-118974-6), DUP-01_11122015 (680-118974-7), MW-3R_11122015 (680-118974-8), TMW-1_11122015 (680-118974-9), DUP-02_11122015 (680-118974-10), EBP_11122015 (680-118974-11), EBJ_11122015 (680-118974-12) and FB_11122015 (680-118974-13) were analyzed for nitrate-nitrite as nitrogen in accordance with EPA Method 353.2. The samples were analyzed on 11/13/2015.

Method(s) 353.2: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with AD410397 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of nitrate plus nitrite in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Nitrate as N and Nitrate Nitrite as N failed the recovery criteria low for the MS and/or MSD of sample TMW-1_11122015 (680-118974-9) in batch 680-410397. Refer to the QC report for details.

Samples TMW-1_11122015 (680-118974-9)[200X] and DUP-02_11122015 (680-118974-10)[200X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-118974-1	EW-1_11122015	Water	11/12/15 09:58	11/13/15 08:30
680-118974-2	PDMW-19P_11122015	Water	11/12/15 09:30	11/13/15 08:30
680-118974-3	PDMW-10R_11122015	Water	11/12/15 10:48	11/13/15 08:30
680-118974-4	TMW-4R_11122015	Water	11/12/15 10:30	11/13/15 08:30
680-118974-5	PDMW-26T_11122015	Water	11/12/15 13:55	11/13/15 08:30
680-118974-6	PDMW-8R_11122015	Water	11/12/15 13:00	11/13/15 08:30
680-118974-7	DUP-01_11122015	Water	11/12/15 00:00	11/13/15 08:30
680-118974-8	MW-3R_11122015	Water	11/12/15 00:00	11/13/15 08:30
680-118974-9	TMW-1_11122015	Water	11/12/15 15:13	11/13/15 08:30
680-118974-10	DUP-02_11122015	Water	11/12/15 00:00	11/13/15 08:30
680-118974-11	EBP_11122015	Water	11/12/15 15:15	11/13/15 08:30
680-118974-12	EBJ_11122015	Water	11/12/15 16:35	11/13/15 08:30
680-118974-13	FB_11122015	Water	11/12/15 15:35	11/13/15 08:30
680-118974-14	TB_11122015	Water	11/12/15 00:00	11/13/15 08:30

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: EW-1_11122015

Lab Sample ID: 680-118974-1

Date Collected: 11/12/15 09:58
Matrix: Water
Date Received: 11/13/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:24	1
Chromium	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:24	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:24	1
Nickel	**60**		40		ug/L		11/17/15 10:31	11/18/15 04:24	1
Zinc	**170**		20		ug/L		11/17/15 10:31	11/18/15 04:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**270**		50		mg/L			11/19/15 18:47	200
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 15:43	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:43	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:43	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-19P_11122015
Date Collected: 11/12/15 09:30
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-2
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:28	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:28	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 04:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**4.9**		1.3		mg/L			11/19/15 17:34	5
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 15:50	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:50	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:50	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-10R_11122015
Date Collected: 11/12/15 10:48
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-3
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:33	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:33	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 04:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**7.9**		1.3		mg/L			11/19/15 16:58	5
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:52	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:52	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:52	1

Client Sample ID: TMW-4R_11122015

Lab Sample ID: 680-118974-4

Date Collected: 11/12/15 10:30
Matrix: Water
Date Received: 11/13/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:37	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**3.1**		0.50		mg/L			11/19/15 17:34	2
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:53	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:53	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:53	1

Client Sample ID: PDMW-26T_11122015

Lab Sample ID: 680-118974-5

Date Collected: 11/12/15 13:55
Matrix: Water
Date Received: 11/13/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/18/15 10:36	11/19/15 14:51	1
Lead	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**600**		100		mg/L			11/20/15 09:10	400
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 15:56	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:56	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:56	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: PDMW-8R_11122015
Date Collected: 11/12/15 13:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-6
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:42	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 04:42	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 04:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**60**		13		mg/L			11/19/15 18:02	50
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:50	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:50	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:50	1

Client Sample ID: DUP-01_11122015

Lab Sample ID: 680-118974-7

Date Collected: 11/12/15 00:00
Matrix: Water
Date Received: 11/13/15 08:30

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/18/15 10:36	11/19/15 14:55	1
Lead	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**600**		100		mg/L			11/20/15 09:10	400
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:01	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:01	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:01	1

Client Sample Results

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: MW-3R_11122015
Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-8
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 04:55	1
Lead	**10**		10		ug/L		11/17/15 10:31	11/18/15 04:55	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 04:55	1
Zinc	**35**		20		ug/L		11/17/15 10:31	11/18/15 04:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**1.7**		0.25		mg/L			11/19/15 17:20	1
Nitrate as N	**0.056**		0.050		mg/L			11/13/15 16:02	1
Nitrate Nitrite as N	**0.054**		0.050		mg/L			11/13/15 16:02	1
Nitrite as N	**0.11**		0.050		mg/L			11/13/15 16:02	1

Client Sample ID: TMW-1_11122015

Date Collected: 11/12/15 15:13
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**52**		1.0		ug/L			11/17/15 13:20	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 13:20	1
Toluene	1.0	U	1.0		ug/L			11/17/15 13:20	1
Xylenes, Total	**220**		1.0		ug/L			11/17/15 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/17/15 13:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*11/17/15 13:20*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/17/15 13:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/17/15 13:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Acenaphthylene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Anthracene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Benzo[a]anthracene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Benzo[a]pyrene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Benzo[b]fluoranthene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Benzo[g,h,i]perylene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Benzo[k]fluoranthene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Chrysene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Dibenz(a,h)anthracene	9.5	U F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Fluoranthene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Fluorene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Indeno[1,2,3-cd]pyrene	9.5	U F2 F1	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
1-Methylnaphthalene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
2-Methylnaphthalene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Naphthalene	**32**		9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Phenanthrene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1
Pyrene	9.5	U	9.5		ug/L		11/17/15 15:53	11/20/15 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*28*	*X*	*32 - 114*	*11/17/15 15:53*	*11/20/15 21:00*	*1*
Nitrobenzene-d5 (Surr)	*28*	*X*	*30 - 117*	*11/17/15 15:53*	*11/20/15 21:00*	*1*
Terphenyl-d14 (Surr)	*34*		*10 - 132*	*11/17/15 15:53*	*11/20/15 21:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Acenaphthylene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Anthracene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Benzo[a]anthracene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Benzo[a]pyrene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Benzo[b]fluoranthene	9.6	U H F1	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Benzo[g,h,i]perylene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Benzo[k]fluoranthene	9.6	U H F1	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Chrysene	9.6	U H F1	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Dibenz(a,h)anthracene	9.6	U H F1	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Fluoranthene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1

Client Sample ID: TMW-1_11122015

Date Collected: 11/12/15 15:13
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-9

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Indeno[1,2,3-cd]pyrene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
1-Methylnaphthalene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
2-Methylnaphthalene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Naphthalene	**26**	**H F1**	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Phenanthrene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1
Pyrene	9.6	U H	9.6		ug/L		11/24/15 15:42	11/27/15 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*17*	*X*	*32 - 114*	*11/24/15 15:42*	*11/27/15 19:28*	*1*
Nitrobenzene-d5 (Surr)	*20*	*X*	*30 - 117*	*11/24/15 15:42*	*11/27/15 19:28*	*1*
Terphenyl-d14 (Surr)	*10*		*10 - 132*	*11/24/15 15:42*	*11/27/15 19:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**150**		20		ug/L		11/18/15 10:36	11/19/15 14:40	1
Chromium	**29**		10		ug/L		11/18/15 10:36	11/19/15 14:40	1
Lead	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:40	1
Nickel	40	U	40		ug/L		11/18/15 10:36	11/19/15 14:40	1
Zinc	**78**		20		ug/L		11/18/15 10:36	11/19/15 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**3600**	**F1**	1300		mg/L			11/20/15 09:25	5000
Nitrate as N	**250**	**F1**	10		mg/L			11/13/15 15:37	200
Nitrate Nitrite as N	**250**	**F1**	10		mg/L			11/13/15 15:37	200
Nitrite as N	10	U	10		mg/L			11/13/15 15:37	200

Client Sample ID: DUP-02_11122015

Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**51**		1.0		ug/L			11/17/15 15:27	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 15:27	1
Toluene	1.0	U	1.0		ug/L			11/17/15 15:27	1
Xylenes, Total	**220**		1.0		ug/L			11/17/15 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/17/15 15:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/17/15 15:27*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/17/15 15:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/17/15 15:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Acenaphthylene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Anthracene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Benzo[a]anthracene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Benzo[a]pyrene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Benzo[b]fluoranthene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Benzo[g,h,i]perylene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Benzo[k]fluoranthene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Chrysene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Dibenz(a,h)anthracene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Fluoranthene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Fluorene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Indeno[1,2,3-cd]pyrene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
1-Methylnaphthalene	**11**		9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
2-Methylnaphthalene	**13**		9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Naphthalene	**63**		9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Phenanthrene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1
Pyrene	9.7	U	9.7		ug/L		11/17/15 15:53	11/20/15 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*32 - 114*	*11/17/15 15:53*	*11/20/15 21:25*	*1*
Nitrobenzene-d5 (Surr)	*57*		*30 - 117*	*11/17/15 15:53*	*11/20/15 21:25*	*1*
Terphenyl-d14 (Surr)	*35*		*10 - 132*	*11/17/15 15:53*	*11/20/15 21:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**120**		20		ug/L		11/18/15 10:36	11/19/15 14:58	1
Chromium	**23**		10		ug/L		11/18/15 10:36	11/19/15 14:58	1
Lead	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:58	1
Nickel	40	U	40		ug/L		11/18/15 10:36	11/19/15 14:58	1
Zinc	**63**		20		ug/L		11/18/15 10:36	11/19/15 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**3400**		1300		mg/L			11/20/15 09:25	5000
Nitrate as N	**230**		10		mg/L			11/13/15 15:41	200
Nitrate Nitrite as N	**230**		10		mg/L			11/13/15 15:41	200

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: DUP-02_11122015
Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-10
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	10	U	10		mg/L			11/13/15 15:41	200

Client Sample ID: EBP_11122015

Date Collected: 11/12/15 15:15
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-11

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:00	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 05:00	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 05:00	1
Zinc	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 16:38	1
Nitrate as N	**0.16**		0.050		mg/L			11/13/15 16:03	1
Nitrate Nitrite as N	**0.16**		0.050		mg/L			11/13/15 16:03	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:03	1

Client Sample ID: EBJ_11122015

Date Collected: 11/12/15 16:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			11/17/15 11:35	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 11:35	1
Toluene	1.0	U	1.0		ug/L			11/17/15 11:35	1
Xylenes, Total	1.0	U	1.0		ug/L			11/17/15 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/17/15 11:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*11/17/15 11:35*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/17/15 11:35*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/17/15 11:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Acenaphthylene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Benzo[a]anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Benzo[a]pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Benzo[b]fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Benzo[g,h,i]perylene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Benzo[k]fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Chrysene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Dibenz(a,h)anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Fluorene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Indeno[1,2,3-cd]pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
1-Methylnaphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
2-Methylnaphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Naphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Phenanthrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1
Pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/20/15 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*32 - 114*	*11/17/15 15:53*	*11/20/15 21:50*	*1*
Nitrobenzene-d5 (Surr)	*48*		*30 - 117*	*11/17/15 15:53*	*11/20/15 21:50*	*1*
Terphenyl-d14 (Surr)	*56*		*10 - 132*	*11/17/15 15:53*	*11/20/15 21:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:04	1
Chromium	10	U	10		ug/L		11/17/15 10:31	11/18/15 05:04	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 05:04	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 05:04	1
Zinc	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 16:38	1
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:05	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:05	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: EBJ_11122015
Date Collected: 11/12/15 16:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-12
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:05	1

Client Sample ID: FB_11122015

Date Collected: 11/12/15 15:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			11/17/15 11:56	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 11:56	1
Toluene	1.0	U	1.0		ug/L			11/17/15 11:56	1
Xylenes, Total	1.0	U	1.0		ug/L			11/17/15 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/17/15 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/17/15 11:56*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/17/15 11:56*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/17/15 11:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Acenaphthylene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Benzo[a]anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Benzo[a]pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Benzo[b]fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Benzo[g,h,i]perylene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Benzo[k]fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Chrysene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Dibenz(a,h)anthracene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Fluoranthene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Fluorene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Indeno[1,2,3-cd]pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
1-Methylnaphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
2-Methylnaphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Naphthalene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Phenanthrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1
Pyrene	9.6	U	9.6		ug/L		11/17/15 15:53	11/26/15 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*101*		*32 - 114*	*11/17/15 15:53*	*11/26/15 02:09*	*1*
Nitrobenzene-d5 (Surr)	*94*		*30 - 117*	*11/17/15 15:53*	*11/26/15 02:09*	*1*
Terphenyl-d14 (Surr)	*114*		*10 - 132*	*11/17/15 15:53*	*11/26/15 02:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:09	1
Chromium	10	U	10		ug/L		11/17/15 10:31	11/18/15 05:09	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 05:09	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 05:09	1
Zinc	20	U	20		ug/L		11/17/15 10:31	11/18/15 05:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 16:38	1
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 16:06	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:06	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: FB_11122015
Date Collected: 11/12/15 15:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-13
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 16:06	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: TB_11122015
Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			11/17/15 12:17	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 12:17	1
Toluene	1.0	U	1.0		ug/L			11/17/15 12:17	1
Xylenes, Total	1.0	U	1.0		ug/L			11/17/15 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/17/15 12:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/17/15 12:17*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/17/15 12:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/17/15 12:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-410671/11
Matrix: Water
Analysis Batch: 410671

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0		ug/L			11/17/15 11:14	1
Ethylbenzene	1.0	U	1.0		ug/L			11/17/15 11:14	1
Toluene	1.0	U	1.0		ug/L			11/17/15 11:14	1
Xylenes, Total	1.0	U	1.0		ug/L			11/17/15 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/17/15 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*11/17/15 11:14*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/17/15 11:14*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/17/15 11:14*	*1*

Lab Sample ID: LCS 680-410671/5
Matrix: Water
Analysis Batch: 410671

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	48.2		ug/L		96	73 - 131		
Ethylbenzene			50.0	48.0		ug/L		96	80 - 120		
Toluene			50.0	48.8		ug/L		98	80 - 122		
Xylenes, Total			100	96.7		ug/L		97	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-410671/6
Matrix: Water
Analysis Batch: 410671

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			50.0	48.5		ug/L		97	73 - 131	1	30
Ethylbenzene			50.0	48.2		ug/L		96	80 - 120	0	20
Toluene			50.0	48.5		ug/L		97	80 - 122	1	20
Xylenes, Total			100	97.8		ug/L		98	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 410671

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	52		50.0	104		ug/L		104	73 - 131
Ethylbenzene	1.0	U	50.0	50.2		ug/L		100	80 - 120
Toluene	1.0	U	50.0	49.9		ug/L		99	80 - 122
Xylenes, Total	220		100	316		ug/L		101	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 410671

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	52		50.0	103		ug/L		102	73 - 131	1	30
Ethylbenzene	1.0	U	50.0	49.3		ug/L		98	80 - 120	2	20
Toluene	1.0	U	50.0	49.5		ug/L		98	80 - 122	1	20
Xylenes, Total	220		100	311		ug/L		96	80 - 120	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-410700/7-A
Matrix: Water
Analysis Batch: 411357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Acenaphthylene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Anthracene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Benzo[a]anthracene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Benzo[a]pyrene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Benzo[b]fluoranthene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Benzo[g,h,i]perylene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Benzo[k]fluoranthene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Chrysene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Dibenz(a,h)anthracene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Fluoranthene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Fluorene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Indeno[1,2,3-cd]pyrene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-410700/7-A
Matrix: Water
Analysis Batch: 411357

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
2-Methylnaphthalene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Naphthalene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Phenanthrene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1
Pyrene	10	U	10		ug/L		11/17/15 15:53	11/20/15 18:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*32 - 114*	*11/17/15 15:53*	*11/20/15 18:09*	*1*
Nitrobenzene-d5 (Surr)	*61*		*30 - 117*	*11/17/15 15:53*	*11/20/15 18:09*	*1*
Terphenyl-d14 (Surr)	*72*		*10 - 132*	*11/17/15 15:53*	*11/20/15 18:09*	*1*

Lab Sample ID: LCS 680-410700/8-A
Matrix: Water
Analysis Batch: 411357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	63.3		ug/L		63	32 - 107
Acenaphthylene	100	63.5		ug/L		63	10 - 119
Anthracene	100	69.9		ug/L		70	38 - 112
Benzo[a]anthracene	100	69.6		ug/L		70	36 - 115
Benzo[a]pyrene	100	66.6		ug/L		67	13 - 120
Benzo[b]fluoranthene	100	67.0		ug/L		67	32 - 117
Benzo[g,h,i]perylene	100	63.4		ug/L		63	21 - 118
Benzo[k]fluoranthene	100	67.5		ug/L		67	28 - 125
Chrysene	100	66.6		ug/L		67	36 - 113
Dibenz(a,h)anthracene	100	62.2		ug/L		62	32 - 115
Fluoranthene	100	71.2		ug/L		71	41 - 113
Fluorene	100	67.3		ug/L		67	39 - 115
Indeno[1,2,3-cd]pyrene	100	51.9		ug/L		52	16 - 119
1-Methylnaphthalene	100	56.1		ug/L		56	26 - 94
2-Methylnaphthalene	100	58.6		ug/L		59	24 - 92
Naphthalene	100	52.9		ug/L		53	24 - 85
Phenanthrene	100	66.6		ug/L		67	40 - 114
Pyrene	100	69.8		ug/L		70	29 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*56*		*32 - 114*
Nitrobenzene-d5 (Surr)	*70*		*30 - 117*
Terphenyl-d14 (Surr)	*69*		*10 - 132*

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 411357

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	9.5	U	93.7	52.1		ug/L		56	32 - 107
Acenaphthylene	9.5	U	93.7	47.6		ug/L		51	10 - 119
Anthracene	9.5	U	93.7	54.4		ug/L		58	38 - 112

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 411357

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410700

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	9.5	U F1	93.7	30.6	F1	ug/L		33	36 - 115
Benzo[a]pyrene	9.5	U	93.7	20.8		ug/L		22	13 - 120
Benzo[b]fluoranthene	9.5	U F1	93.7	20.4	F1	ug/L		22	32 - 117
Benzo[g,h,i]perylene	9.5	U F1	93.7	19.8		ug/L		21	21 - 118
Benzo[k]fluoranthene	9.5	U F1	93.7	21.9	F1	ug/L		23	28 - 125
Chrysene	9.5	U F1	93.7	26.9	F1	ug/L		29	36 - 113
Dibenz(a,h)anthracene	9.5	U F1	93.7	20.1	F1	ug/L		21	32 - 115
Fluoranthene	9.5	U	93.7	48.2		ug/L		51	41 - 113
Fluorene	9.5	U	93.7	55.0		ug/L		59	39 - 115
Indeno[1,2,3-cd]pyrene	9.5	U F2 F1	93.7	21.7		ug/L		23	16 - 119
1-Methylnaphthalene	9.5	U	93.7	57.7		ug/L		54	26 - 94
2-Methylnaphthalene	9.5	U	93.7	56.1		ug/L		51	24 - 92
Naphthalene	32		93.7	101		ug/L		73	24 - 85
Phenanthrene	9.5	U	93.7	55.6		ug/L		59	40 - 114
Pyrene	9.5	U	93.7	47.6		ug/L		51	29 - 118

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*48*		*32 - 114*
Nitrobenzene-d5 (Surr)	*59*		*30 - 117*
Terphenyl-d14 (Surr)	*25*		*10 - 132*

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 411357

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410700

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	9.5	U	93.2	53.3		ug/L		57	32 - 107	2	20
Acenaphthylene	9.5	U	93.2	50.0		ug/L		54	10 - 119	5	20
Anthracene	9.5	U	93.2	52.3		ug/L		56	38 - 112	4	20
Benzo[a]anthracene	9.5	U F1	93.2	27.8	F1	ug/L		30	36 - 115	9	40
Benzo[a]pyrene	9.5	U	93.2	19.3		ug/L		21	13 - 120	8	40
Benzo[b]fluoranthene	9.5	U F1	93.2	20.0	F1	ug/L		21	32 - 117	2	50
Benzo[g,h,i]perylene	9.5	U F1	93.2	16.5	F1	ug/L		18	21 - 118	18	50
Benzo[k]fluoranthene	9.5	U F1	93.2	19.0	F1	ug/L		20	28 - 125	14	40
Chrysene	9.5	U F1	93.2	24.4	F1	ug/L		26	36 - 113	10	50
Dibenz(a,h)anthracene	9.5	U F1	93.2	16.6	F1	ug/L		18	32 - 115	19	40
Fluoranthene	9.5	U	93.2	45.7		ug/L		49	41 - 113	5	40
Fluorene	9.5	U	93.2	53.1		ug/L		57	39 - 115	3	20
Indeno[1,2,3-cd]pyrene	9.5	U F2 F1	93.2	13.4	F1 F2	ug/L		14	16 - 119	47	40
1-Methylnaphthalene	9.5	U	93.2	58.4		ug/L		55	26 - 94	1	50
2-Methylnaphthalene	9.5	U	93.2	59.6		ug/L		56	24 - 92	6	30
Naphthalene	32		93.2	98.4		ug/L		71	24 - 85	2	40
Phenanthrene	9.5	U	93.2	52.9		ug/L		57	40 - 114	5	40
Pyrene	9.5	U	93.2	45.5		ug/L		49	29 - 118	5	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*49*		*32 - 114*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 411357

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410700

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*57*		*30 - 117*
Terphenyl-d14 (Surr)	*23*		*10 - 132*

Lab Sample ID: MB 680-411724/2-A
Matrix: Water
Analysis Batch: 412162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 411724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Acenaphthylene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Anthracene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Benzo[a]anthracene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Benzo[a]pyrene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Benzo[b]fluoranthene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Benzo[g,h,i]perylene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Benzo[k]fluoranthene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Chrysene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Dibenz(a,h)anthracene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Fluoranthene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Fluorene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Indeno[1,2,3-cd]pyrene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
1-Methylnaphthalene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
2-Methylnaphthalene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Naphthalene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Phenanthrene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1
Pyrene	10	U	10		ug/L		11/24/15 15:42	11/27/15 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*23*	*X*	*32 - 114*	*11/24/15 15:42*	*11/27/15 15:53*	*1*
Nitrobenzene-d5 (Surr)	*30*		*30 - 117*	*11/24/15 15:42*	*11/27/15 15:53*	*1*
Terphenyl-d14 (Surr)	*35*		*10 - 132*	*11/24/15 15:42*	*11/27/15 15:53*	*1*

Lab Sample ID: LCS 680-411724/3-A
Matrix: Water
Analysis Batch: 412162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 411724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	100	38.8		ug/L		39	32 - 107
Acenaphthylene	100	30.1		ug/L		30	10 - 119
Anthracene	100	41.4		ug/L		41	38 - 112
Benzo[a]anthracene	100	40.5		ug/L		40	36 - 115
Benzo[a]pyrene	100	41.1		ug/L		41	13 - 120
Benzo[b]fluoranthene	100	57.3		ug/L		57	32 - 117
Benzo[g,h,i]perylene	100	42.2		ug/L		42	21 - 118
Benzo[k]fluoranthene	100	58.4		ug/L		58	28 - 125
Chrysene	100	38.9		ug/L		39	36 - 113
Dibenz(a,h)anthracene	100	53.8		ug/L		54	32 - 115
Fluoranthene	100	42.8		ug/L		43	41 - 113

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-411724/3-A
Matrix: Water
Analysis Batch: 412162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 411724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	100	40.2		ug/L		40	39 - 115
Indeno[1,2,3-cd]pyrene	100	29.9		ug/L		30	16 - 119
1-Methylnaphthalene	100	32.8		ug/L		33	26 - 94
2-Methylnaphthalene	100	30.9		ug/L		31	24 - 92
Naphthalene	100	30.2		ug/L		30	24 - 85
Phenanthrene	100	40.8		ug/L		41	40 - 114
Pyrene	100	38.9		ug/L		39	29 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*34*		*32 - 114*
Nitrobenzene-d5 (Surr)	*37*		*30 - 117*
Terphenyl-d14 (Surr)	*41*		*10 - 132*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 412162

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 411724

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene - RE	9.6	U H	97.0	65.6	H	ug/L		68	32 - 107
Acenaphthylene - RE	9.6	U H	97.0	53.4	H	ug/L		55	10 - 119
Anthracene - RE	9.6	U H	97.0	63.1	H	ug/L		65	38 - 112
Benzo[a]anthracene - RE	9.6	U H	97.0	40.4	H *	ug/L		42	36 - 115
Benzo[a]pyrene - RE	9.6	U H	97.0	24.5	H *	ug/L		25	13 - 120
Benzo[b]fluoranthene - RE	9.6	U H F1	97.0	27.9	H F1 *	ug/L		29	32 - 117
Benzo[g,h,i]perylene - RE	9.6	U H	97.0	24.6	H *	ug/L		25	21 - 118
Benzo[k]fluoranthene - RE	9.6	U H F1	97.0	25.0	H F1 *	ug/L		26	28 - 125
Chrysene - RE	9.6	U H F1	97.0	36.0	H *	ug/L		37	36 - 113
Dibenz(a,h)anthracene - RE	9.6	U H F1	97.0	25.5	H F1 *	ug/L		26	32 - 115
Fluoranthene - RE	9.6	U H	97.0	63.3	H	ug/L		65	41 - 113
Fluorene - RE	9.6	U H	97.0	62.9	H	ug/L		65	39 - 115
Indeno[1,2,3-cd]pyrene - RE	9.6	U H	97.0	26.3	H *	ug/L		27	16 - 119
1-Methylnaphthalene - RE	9.6	U H	97.0	64.0	H	ug/L		61	26 - 94
2-Methylnaphthalene - RE	9.6	U H	97.0	61.8	H	ug/L		58	24 - 92
Naphthalene - RE	26	H F1	97.0	129	H F1	ug/L		106	24 - 85
Phenanthrene - RE	9.6	U H	97.0	65.0	H	ug/L		67	40 - 114
Pyrene - RE	9.6	U H	97.0	54.1	H *	ug/L		56	29 - 118

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl - RE	*58*		*32 - 114*
Nitrobenzene-d5 (Surr) - RE	*68*		*30 - 117*
Terphenyl-d14 (Surr) - RE	*27*	*	*10 - 132*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 680-118974-9 MSD — **Client Sample ID: TMW-1_11122015**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 412162 — **Prep Batch: 411724**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene - RE	9.6	U H	95.6	58.2	H	ug/L		61	32 - 107	12	20
Acenaphthylene - RE	9.6	U H	95.6	45.7	H	ug/L		48	10 - 119	16	20
Anthracene - RE	9.6	U H	95.6	54.8	H	ug/L		57	38 - 112	14	20
Benzo[a]anthracene - RE	9.6	U H	95.6	36.5	H *	ug/L		38	36 - 115	10	40
Benzo[a]pyrene - RE	9.6	U H	95.6	22.3	H *	ug/L		23	13 - 120	9	40
Benzo[b]fluoranthene - RE	9.6	U H F1	95.6	24.4	H * F1	ug/L		25	32 - 117	14	50
Benzo[g,h,i]perylene - RE	9.6	U H	95.6	20.4	H *	ug/L		21	21 - 118	19	50
Benzo[k]fluoranthene - RE	9.6	U H F1	95.6	23.4	H * F1	ug/L		24	28 - 125	7	40
Chrysene - RE	9.6	U H F1	95.6	31.9	H * F1	ug/L		33	36 - 113	12	50
Dibenz(a,h)anthracene - RE	9.6	U H F1	95.6	22.4	H * F1	ug/L		23	32 - 115	13	40
Fluoranthene - RE	9.6	U H	95.6	53.8	H	ug/L		56	41 - 113	16	40
Fluorene - RE	9.6	U H	95.6	54.4	H	ug/L		57	39 - 115	15	20
Indeno[1,2,3-cd]pyrene - RE	9.6	U H	95.6	22.1	H *	ug/L		23	16 - 119	17	40
1-Methylnaphthalene - RE	9.6	U H	95.6	53.6	H	ug/L		51	26 - 94	18	50
2-Methylnaphthalene - RE	9.6	U H	95.6	50.1	H	ug/L		47	24 - 92	21	30
Naphthalene - RE	26	H F1	95.6	108	H	ug/L		85	24 - 85	18	40
Phenanthrene - RE	9.6	U H	95.6	55.5	H	ug/L		58	40 - 114	16	40
Pyrene - RE	9.6	U H	95.6	47.9	H *	ug/L		50	29 - 118	12	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl - RE	*48*		*32 - 114*
Nitrobenzene-d5 (Surr) - RE	*59*		*30 - 117*
Terphenyl-d14 (Surr) - RE	*25*	*	*10 - 132*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-410722/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 410905 — **Prep Batch: 410722**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/17/15 10:31	11/18/15 03:31	1
Chromium	10	U	10		ug/L		11/17/15 10:31	11/18/15 03:31	1
Lead	10	U	10		ug/L		11/17/15 10:31	11/18/15 03:31	1
Nickel	40	U	40		ug/L		11/17/15 10:31	11/18/15 03:31	1
Zinc	20	U	20		ug/L		11/17/15 10:31	11/18/15 03:31	1

Lab Sample ID: LCS 680-410722/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 410905 — **Prep Batch: 410722**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	89.7		ug/L		90	80 - 120
Chromium	100	92.1		ug/L		92	80 - 120
Lead	500	455		ug/L		91	80 - 120
Nickel	100	89.2		ug/L		89	80 - 120
Zinc	100	90.2		ug/L		90	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 680-410954/1-A
Matrix: Water
Analysis Batch: 411246

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 410954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20		ug/L		11/18/15 10:36	11/19/15 14:25	1
Chromium	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:25	1
Lead	10	U	10		ug/L		11/18/15 10:36	11/19/15 14:25	1
Nickel	40	U	40		ug/L		11/18/15 10:36	11/19/15 14:25	1
Zinc	20	U	20		ug/L		11/18/15 10:36	11/19/15 14:25	1

Lab Sample ID: LCS 680-410954/2-A
Matrix: Water
Analysis Batch: 411246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 410954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	90.2		ug/L		90	80 - 120
Chromium	100	97.6		ug/L		98	80 - 120
Lead	500	488		ug/L		98	80 - 120
Nickel	100	95.7		ug/L		96	80 - 120
Zinc	100	96.7		ug/L		97	80 - 120

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 411246

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	150		100	233		ug/L		88	75 - 125
Chromium	29		100	119		ug/L		90	75 - 125
Lead	10	U	500	472		ug/L		94	75 - 125
Nickel	40	U	100	123		ug/L		90	75 - 125
Zinc	78		100	169		ug/L		91	75 - 125

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 411246

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA
Prep Batch: 410954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	150		100	234		ug/L		89	75 - 125	0	20
Chromium	29		100	118		ug/L		88	75 - 125	1	20
Lead	10	U	500	458		ug/L		92	75 - 125	3	20
Nickel	40	U	100	119		ug/L		86	75 - 125	3	20
Zinc	78		100	166		ug/L		88	75 - 125	2	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 680-411340/30
Matrix: Water
Analysis Batch: 411340

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.25	U	0.25		mg/L			11/19/15 17:53	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 680-411340/46
Matrix: Water
Analysis Batch: 411340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			1.00	1.03		mg/L		103	90 - 110		

Lab Sample ID: LCSD 680-411340/35
Matrix: Water
Analysis Batch: 411340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia			1.00	1.04		mg/L		104	90 - 110	1	30

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 411340

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	3600	F1	1000	3930	F1	mg/L		32	90 - 110		

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 411340

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia	3600	F1	1000	4750	F1	mg/L		114	90 - 110	19	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-410397/13
Matrix: Water
Analysis Batch: 410397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.050	U	0.050		mg/L			11/13/15 15:32	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:32	1
Nitrite as N	0.050	U	0.050		mg/L			11/13/15 15:32	1

Lab Sample ID: LCS 680-410397/16
Matrix: Water
Analysis Batch: 410397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.500	0.506		mg/L		101	75 - 125		
Nitrate Nitrite as N			1.00	0.999		mg/L		100	90 - 110		
Nitrite as N			0.500	0.493		mg/L		99	90 - 110		

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 410397

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	250	F1	100	308	F1	mg/L		58	75 - 125		

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 680-118974-9 MS
Matrix: Water
Analysis Batch: 410397

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	250	F1	200	416	F1	mg/L		81	90 - 110
Nitrite as N	10	U	100	108		mg/L		104	90 - 110

Lab Sample ID: 680-118974-9 MSD
Matrix: Water
Analysis Batch: 410397

Client Sample ID: TMW-1_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	250	F1	100	308	F1	mg/L		58	75 - 125	0	30
Nitrate Nitrite as N	250	F1	200	416	F1	mg/L		80	90 - 110	0	10
Nitrite as N	10	U	100	108		mg/L		104	90 - 110	0	10

Lab Sample ID: 680-118974-10 DU
Matrix: Water
Analysis Batch: 410397

Client Sample ID: DUP-02_11122015
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	230		227		mg/L		1	30
Nitrate Nitrite as N	230		227		mg/L		0.3	10
Nitrite as N	10	U	10	U	mg/L		NC	10

GC/MS VOA

Analysis Batch: 410671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9	TMW-1_11122015	Total/NA	Water	8260B	
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	8260B	
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	8260B	
680-118974-10	DUP-02_11122015	Total/NA	Water	8260B	
680-118974-12	EBJ_11122015	Total/NA	Water	8260B	
680-118974-13	FB_11122015	Total/NA	Water	8260B	
680-118974-14	TB_11122015	Total/NA	Water	8260B	
LCS 680-410671/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-410671/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-410671/11	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 410700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9	TMW-1_11122015	Total/NA	Water	3520C	
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	3520C	
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	3520C	
680-118974-10	DUP-02_11122015	Total/NA	Water	3520C	
680-118974-12	EBJ_11122015	Total/NA	Water	3520C	
680-118974-13	FB_11122015	Total/NA	Water	3520C	
LCS 680-410700/8-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-410700/7-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 411357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9	TMW-1_11122015	Total/NA	Water	8270D	410700
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	8270D	410700
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	8270D	410700
680-118974-10	DUP-02_11122015	Total/NA	Water	8270D	410700
680-118974-12	EBJ_11122015	Total/NA	Water	8270D	410700
LCS 680-410700/8-A	Lab Control Sample	Total/NA	Water	8270D	410700
MB 680-410700/7-A	Method Blank	Total/NA	Water	8270D	410700

Prep Batch: 411724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9 - RE	TMW-1_11122015	Total/NA	Water	3520C	
680-118974-9 MS - RE	TMW-1_11122015	Total/NA	Water	3520C	
680-118974-9 MSD - RE	TMW-1_11122015	Total/NA	Water	3520C	
LCS 680-411724/3-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-411724/2-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 412023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-13	FB_11122015	Total/NA	Water	8270D	410700

Analysis Batch: 412162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9 - RE	TMW-1_11122015	Total/NA	Water	8270D	411724
680-118974-9 MS - RE	TMW-1_11122015	Total/NA	Water	8270D	411724

GC/MS Semi VOA (Continued)

Analysis Batch: 412162 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9 MSD - RE	TMW-1_11122015	Total/NA	Water	8270D	411724
LCS 680-411724/3-A	Lab Control Sample	Total/NA	Water	8270D	411724
MB 680-411724/2-A	Method Blank	Total/NA	Water	8270D	411724

Metals

Prep Batch: 410722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-1	EW-1_11122015	Total/NA	Water	3010A	
680-118974-2	PDMW-19P_11122015	Total/NA	Water	3010A	
680-118974-3	PDMW-10R_11122015	Total/NA	Water	3010A	
680-118974-4	TMW-4R_11122015	Total/NA	Water	3010A	
680-118974-6	PDMW-8R_11122015	Total/NA	Water	3010A	
680-118974-8	MW-3R_11122015	Total/NA	Water	3010A	
680-118974-11	EBP_11122015	Total/NA	Water	3010A	
680-118974-12	EBJ_11122015	Total/NA	Water	3010A	
680-118974-13	FB_11122015	Total/NA	Water	3010A	
LCS 680-410722/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-410722/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 410905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-1	EW-1_11122015	Total/NA	Water	6010C	410722
680-118974-2	PDMW-19P_11122015	Total/NA	Water	6010C	410722
680-118974-3	PDMW-10R_11122015	Total/NA	Water	6010C	410722
680-118974-4	TMW-4R_11122015	Total/NA	Water	6010C	410722
680-118974-6	PDMW-8R_11122015	Total/NA	Water	6010C	410722
680-118974-8	MW-3R_11122015	Total/NA	Water	6010C	410722
680-118974-11	EBP_11122015	Total/NA	Water	6010C	410722
680-118974-12	EBJ_11122015	Total/NA	Water	6010C	410722
680-118974-13	FB_11122015	Total/NA	Water	6010C	410722
LCS 680-410722/2-A	Lab Control Sample	Total/NA	Water	6010C	410722
MB 680-410722/1-A	Method Blank	Total/NA	Water	6010C	410722

Prep Batch: 410954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-5	PDMW-26T_11122015	Total/NA	Water	3010A	
680-118974-7	DUP-01_11122015	Total/NA	Water	3010A	
680-118974-9	TMW-1_11122015	Total/NA	Water	3010A	
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	3010A	
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	3010A	
680-118974-10	DUP-02_11122015	Total/NA	Water	3010A	
LCS 680-410954/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 680-410954/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 411246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-5	PDMW-26T_11122015	Total/NA	Water	6010C	410954
680-118974-7	DUP-01_11122015	Total/NA	Water	6010C	410954
680-118974-9	TMW-1_11122015	Total/NA	Water	6010C	410954

Metals (Continued)

Analysis Batch: 411246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	6010C	410954
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	6010C	410954
680-118974-10	DUP-02_11122015	Total/NA	Water	6010C	410954
LCS 680-410954/2-A	Lab Control Sample	Total/NA	Water	6010C	410954
MB 680-410954/1-A	Method Blank	Total/NA	Water	6010C	410954

General Chemistry

Analysis Batch: 410397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-1	EW-1_11122015	Total/NA	Water	353.2	
680-118974-2	PDMW-19P_11122015	Total/NA	Water	353.2	
680-118974-3	PDMW-10R_11122015	Total/NA	Water	353.2	
680-118974-4	TMW-4R_11122015	Total/NA	Water	353.2	
680-118974-5	PDMW-26T_11122015	Total/NA	Water	353.2	
680-118974-6	PDMW-8R_11122015	Total/NA	Water	353.2	
680-118974-7	DUP-01_11122015	Total/NA	Water	353.2	
680-118974-8	MW-3R_11122015	Total/NA	Water	353.2	
680-118974-9	TMW-1_11122015	Total/NA	Water	353.2	
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	353.2	
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	353.2	
680-118974-10	DUP-02_11122015	Total/NA	Water	353.2	
680-118974-10 DU	DUP-02_11122015	Total/NA	Water	353.2	
680-118974-11	EBP_11122015	Total/NA	Water	353.2	
680-118974-12	EBJ_11122015	Total/NA	Water	353.2	
680-118974-13	FB_11122015	Total/NA	Water	353.2	
LCS 680-410397/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-410397/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 411340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-118974-1	EW-1_11122015	Total/NA	Water	350.1	
680-118974-2	PDMW-19P_11122015	Total/NA	Water	350.1	
680-118974-3	PDMW-10R_11122015	Total/NA	Water	350.1	
680-118974-4	TMW-4R_11122015	Total/NA	Water	350.1	
680-118974-5	PDMW-26T_11122015	Total/NA	Water	350.1	
680-118974-6	PDMW-8R_11122015	Total/NA	Water	350.1	
680-118974-7	DUP-01_11122015	Total/NA	Water	350.1	
680-118974-8	MW-3R_11122015	Total/NA	Water	350.1	
680-118974-9	TMW-1_11122015	Total/NA	Water	350.1	
680-118974-9 MS	TMW-1_11122015	Total/NA	Water	350.1	
680-118974-9 MSD	TMW-1_11122015	Total/NA	Water	350.1	
680-118974-10	DUP-02_11122015	Total/NA	Water	350.1	
680-118974-11	EBP_11122015	Total/NA	Water	350.1	
680-118974-12	EBJ_11122015	Total/NA	Water	350.1	
680-118974-13	FB_11122015	Total/NA	Water	350.1	
LCS 680-411340/46	Lab Control Sample	Total/NA	Water	350.1	
LCSD 680-411340/35	Lab Control Sample Dup	Total/NA	Water	350.1	
MB 680-411340/30	Method Blank	Total/NA	Water	350.1	

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: EW-1_11122015
Date Collected: 11/12/15 09:58
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:24	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		200	2 mL	2 mL	411340	11/19/15 18:47	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 15:43	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-19P_11122015
Date Collected: 11/12/15 09:30
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:28	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		5	2 mL	2 mL	411340	11/19/15 17:34	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 15:50	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-10R_11122015
Date Collected: 11/12/15 10:48
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:33	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		5	2 mL	2 mL	411340	11/19/15 16:58	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:52	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: TMW-4R_11122015
Date Collected: 11/12/15 10:30
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:37	BCB	TAL SAV
	Instrument ID: ICPE									

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: TMW-4R_11122015

Lab Sample ID: 680-118974-4
Date Collected: 11/12/15 10:30
Matrix: Water
Date Received: 11/13/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		2	2 mL	2 mL	411340	11/19/15 17:34	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:53	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-26T_11122015

Lab Sample ID: 680-118974-5
Date Collected: 11/12/15 13:55
Matrix: Water
Date Received: 11/13/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410954	11/18/15 10:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	411246	11/19/15 14:51	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		400	2 mL	2 mL	411340	11/20/15 09:10	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 15:56	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: PDMW-8R_11122015

Lab Sample ID: 680-118974-6
Date Collected: 11/12/15 13:00
Matrix: Water
Date Received: 11/13/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:42	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		50	2 mL	2 mL	411340	11/19/15 18:02	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:50	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: DUP-01_11122015

Lab Sample ID: 680-118974-7
Date Collected: 11/12/15 00:00
Matrix: Water
Date Received: 11/13/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410954	11/18/15 10:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	411246	11/19/15 14:55	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		400	2 mL	2 mL	411340	11/20/15 09:10	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:01	GRX	TAL SAV
	Instrument ID: LACHAT2									

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: MW-3R_11122015

Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 04:55	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411340	11/19/15 17:20	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:02	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: TMW-1_11122015

Date Collected: 11/12/15 15:13
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410671	11/17/15 13:20	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C	RE		260 mL	0.5 mL	411724	11/24/15 15:42	RBS	TAL SAV
Total/NA	Analysis	8270D	RE	1	260 mL	0.5 mL	412162	11/27/15 19:28	CAR	TAL SAV
	Instrument ID: CMSE									
Total/NA	Prep	3520C			263.3 mL	0.5 mL	410700	11/17/15 15:53	RBS	TAL SAV
Total/NA	Analysis	8270D		1	263.3 mL	0.5 mL	411357	11/20/15 21:00	CAR	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3010A			50 mL	50 mL	410954	11/18/15 10:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	411246	11/19/15 14:40	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		5000	2 mL	2 mL	411340	11/20/15 09:25	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		200	2 mL	2 mL	410397	11/13/15 15:37	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: DUP-02_11122015

Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410671	11/17/15 15:27	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			258.5 mL	0.5 mL	410700	11/17/15 15:53	RBS	TAL SAV
Total/NA	Analysis	8270D		1	258.5 mL	0.5 mL	411357	11/20/15 21:25	CAR	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3010A			50 mL	50 mL	410954	11/18/15 10:36	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	411246	11/19/15 14:58	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		5000	2 mL	2 mL	411340	11/20/15 09:25	JME	TAL SAV
	Instrument ID: KONELAB1									

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: DUP-02_11122015

Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		200	2 mL	2 mL	410397	11/13/15 15:41	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: EBP_11122015

Date Collected: 11/12/15 15:15
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 05:00	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411340	11/19/15 16:38	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:03	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: EBJ_11122015

Date Collected: 11/12/15 16:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410671	11/17/15 11:35	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			259.6 mL	0.5 mL	410700	11/17/15 15:53	RBS	TAL SAV
Total/NA	Analysis	8270D		1	259.6 mL	0.5 mL	411357	11/20/15 21:50	CAR	TAL SAV
	Instrument ID: CMSG									
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 05:04	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411340	11/19/15 16:38	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:05	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: FB_11122015

Date Collected: 11/12/15 15:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410671	11/17/15 11:56	CEJ	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Prep	3520C			260.4 mL	0.5 mL	410700	11/17/15 15:53	RBS	TAL SAV

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Client Sample ID: FB_11122015

Date Collected: 11/12/15 15:35
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	260.4 mL	0.5 mL	412023	11/26/15 02:09	CAR	TAL SAV
	Instrument ID: CMSN									
Total/NA	Prep	3010A			50 mL	50 mL	410722	11/17/15 10:31	CRW	TAL SAV
Total/NA	Analysis	6010C		1	50 mL	50 mL	410905	11/18/15 05:09	BCB	TAL SAV
	Instrument ID: ICPE									
Total/NA	Analysis	350.1		1	2 mL	2 mL	411340	11/19/15 16:38	JME	TAL SAV
	Instrument ID: KONELAB1									
Total/NA	Analysis	353.2		1	2 mL	2 mL	410397	11/13/15 16:06	GRX	TAL SAV
	Instrument ID: LACHAT2									

Client Sample ID: TB_11122015

Date Collected: 11/12/15 00:00
Date Received: 11/13/15 08:30

Lab Sample ID: 680-118974-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	410671	11/17/15 12:17	CEJ	TAL SAV
	Instrument ID: CMSO2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

CSX TRANSPORTATION — CHAIN OF CUSTODY

COC # 1 of 2

LABORATORY INFORMATION

- [x] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
- [ ] TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-9396 F: 330-497-0772
- [ ] TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
- [ ] TestAmerica Pensacola - 3355 McLemore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
- [ ] TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7991
- [ ] TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

SHIPMENT INFORMATION

Shipment Method: Lab Courier

Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 9415575 | Proj. State (State of Origin): GA | Proj. City: Savannah

CSXT Project Name: Hutchinson Island

CSXT Contact: Sam Ross | LWON: TBD

CONSULTANT INFORMATION

Company: Amec Foster Wheeler | Project #: 6-4300-5246

PM: Aaron Getchell

Address: 1101 Channelside Drive | Email: aaron.getchell@amecfw.com

City, State, Zip: Tampa, FL 33602 | Phone: (813) 636-1541 | Fax: (813) 289-5474

Turnaround Time:
- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days _____
- [ ] Standard 14 Days
- [x] Other CSXT Standard

Deliverables:
- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: _____
- [ ] EDD Required, Format: _____

Preservative Codes: 0 = No Preservatives; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡	3	3/0	2	2	2	2	1	0	COMMENTS	LAB USE
								Pres. Code	METHODS FOR ANALYSIS										
									Ammonia	Nitrate & Nitrite	As & Pb	Nickel	Chromium	Zinc	BTEX	PAHs		
EW-1_11122015	4	11/12/2015	0958	JJ	N	G	GW		X	X	X	X	X	X				
PDMW-19P_11122015	4	11/12/2015	0930	PG	N	G	GW		X	X	X	X						
PDMW-10R_11122015	4	11/12/2015	1048	JJ	N	G	GW		X	X	X	X						
TMW-4R_11122015	4	11/12/2015	1030	PG	N	G	GW		X	X	X							
PDMW-26T_11122015	4	11/12/2015	1355	JJ	N	G	GW		X	X	X							
PDMW-8R_11122015	4	11/12/2015	1300	PG	N	G	GW		X	X	X	X						
DUP-01_11122015	4	11/12/2015	—	JJ	N	G	GW		X	X	X							
MW-3R_11122015	4	11/12/2015		PG	N	G	GW		X	X	X	X		X				
TMW-1_11122015	27	11/12/2015	1513	JJ	N	G	GW		X	X	X	X	X	X	X	X	MS/MSD	
DUP-02_11122015	9	11/12/2015	—	JJ	N	G	GW		X	X	X	X	X	X	X	X		

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/13/15 0750	[signature]	11/13/15 0750
[signature]	11/13/15 0830		
Received By Laboratory: [signature]	11/13/15 08:30	Lab Remarks:	

Comments & Special Analytical Requirements:

0.4 C | 0.8 C
0.8 C | 1.2 C CF
0.8 C | 1.2 C

LAB USE: [ ] Yes [ ] No Custody Intact | Custody Seal # | LAB Log Number # 680-118974

680-118974 Chain of Custody

ORIGINAL – RETURN TO LABORATORY WITH SAMPLES

INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

TAL-6006 (0509)

11/30/2015

CSX TRANSPORTATION

CHAIN OF CUSTODY

COC # 2 of 2

LABORATORY INFORMATION

- [x] TestAmerica Savannah - 5102 LaRoche Avenue, Savannah, GA 31404 P: 912-354-7858 F: 912-352-0165
- [ ] TestAmerica North Canton - 4101 Shuffel Drive NW, North Canton, OH 44720 P: 330-497-9396 F: 330-497-0772
- [ ] TestAmerica Tampa - 6712 Benjamin Road, Suite 100, Tampa, FL 33634 P: 813-885-7427 F: 813-885-7049
- [ ] TestAmerica Pensacola - 3355 McLemore Drive, Pensacola, FL 32514 P: 850-474-1001 F: 850-478-2671
- [ ] TestAmerica Buffalo - 10 Hazelwood Drive, Suite 106, Amherst, NY 14228 P: 716-691-2600 F: 716-961-7991
- [ ] TestAmerica Chicago - 2417 Bond Street, University Park, IL 60466 P: 708-534-5200 F: 708-534-5211

SHIPMENT INFORMATION Lab Courier

Shipment Method:

Shipment Tracking No:

CSXT PROJECT INFORMATION

CSXT Project Number: 9415575

CSXT Project Name: Hutchinson Island

CSXT Contact: Sam Ross

Proj. State (State of Origin): GA

Proj. City: Savannah

LWON: TBD

CONSULTANT INFORMATION

Project #: 6-4300-5246

Company: Amec Foster Wheeler

PM: Aaron Getchell

Address: 11101 Channelside Dr

Email: aaron.getchell@amecfw.com

City, State, Zip: Tampa, FL 33602

Phone: (813)636-1541 Fax: (813)289-5474

Turnaround Time:

- [ ] 1 Day Rush
- [ ] 2 Day Rush
- [ ] 3 Day Rush
- [ ] Standard 6-13 Days
- [ ] Specify # Days _____
- [ ] Standard 14 Days
- [x] Other Standard CSXT

Deliverables:

- [x] CSXT Standard (Level II)
- [ ] Level III
- [ ] Level IV
- [ ] Other Deliv: _____
- [ ] EDD Required, Format: _____

Preservative Codes: 0 = No Preservatives; 1 = Hydrochloric Acid; 2 = Nitric Acid; 3 = Sulfuric Acid; 4 = Sodium Thiosulfate; 5 = Sodium Hydroxide; 6 = Other _____

Matrix Codes: GW = Groundwater; WW = Waste Water; SW = Surface Water; SO = Soil; SL = Sludge; OI = Oil; SOL = Other Solid; LIQ = Liquid

SAMPLE INFORMATION

Sample Identification	Containers Number & Type	Sample Collection Date	Time	Sampler	Filtered Y or N	Type Comp or Grab	Matrix Code	Note ➡ Pres. Code	3	3	2	2	2	2	1	0	COMMENTS	LAB USE
								METHODS FOR ANALYSIS	Ammonia	Nitrate & Nitrite	As & Pb	Ni	Cr	Zn	BTEX	PAHs		
EBP_11122015	4	11/12/15	1515	PG	N	G	GW		X	X	X	X		X				
EBJ_11122015	9	11/12/15	1635	JJ	N	G	GW		X	X	X	X	X	X	X	X		
FB_11122015	9	11/12/15	1535	PG	N	G	GW		X	X	X	X	X	X	X	X		
TB_11122015	2	11/12/15	—	—	N	—	W								X		Trip Blank	

Relinquished By:	Date/Time: 11/13/15 0750	Received By:	Date/Time: 11/13/15 0750	Comments & Special Analytical Requirements: 0.4C / 0.8C; 0.8C / 1.2C; 0.8C / 1.2C
Relinquished By:	Date/Time: 11/13/15 08:30	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Received By Laboratory:	Date/Time: 11/13/15 0830	Lab Remarks:	LAB USE: Custody Intact ☐ Yes ☐ No	Custody Seal # #

LAB Log Number # 68-118974

ORIGINAL – RETURN TO LABORATORY WITH SAMPLES

INVOICE MUST BE SUBMITTED TO CSXT WITH ORIGINAL COC

TAL-6006 (0509)

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 680-118974-1
SDG Number: ENV0000120647/R9415575

Login Number: 118974
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: CSX GA, Hutchinson Island, VRP

TestAmerica Job ID: 680-118974-1
SDG: ENV0000120647/R9415575

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-16

APPENDIX B
FIELD DATA SHEETS

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GROUNDWATER SAMPLING LOG

CLIENT: CSX RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-2015

WELL NO. EW-1 WEATHER: Sunny, 65°F SAMPLE TIME: 0958

REMARKS: SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: ~~4~~ 2 in. STATIC WATER LEVEL: 2.13 ft. WELL DEPTH: 14.20 ft.

LENGTH OF SATURATED ZONE: 12.07 linear ft. ONE WELL VOLUME: ~~2.0~~ 7.8 gals.

THREE WELL VOLUMES = ~~6.0~~ 23.4 gals. ACTUAL VOLUME EVACUATED: 4.5 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~ 10 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0858	21.31	4.08	48.9	6.06	54	4.95	260	0.06	
0903	22.04	4.10	39.9	6.00	36	5.17	260	0.06	
0908	22.14	4.22	27.0	5.93	24	4.33	260	0.10	
0913	22.18	4.20	21.2	5.93	21	4.40	260	0.13	
0918	2227	4.11	25.6	5.93	23	4.27	260	0.16	
0923	22.31	4.02	23.1	6.01	25	4.31	260	0.19	
0928	22.44	3.97	20.2	6.08	26	4.35	260	0.22	
0933	2251	3.90	15.8	6.18	26	4.22	260	0.26	
0938	2257	4.07	16.6	6.27	27	4.10	260	0.29	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x 250ml poly H_2SO_4 for ammonia; 1x125ml poly H_2SO_4 & 1x125ml poly unpres. for nitrate-nitrite; 1x250ml HNO_3 for As, Pb, Ni, Zn, Cr

SAMPLE ID NUMBER(s): EW-1_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11-13-2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: CSX RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-2015

WELL NO. EW-1 WEATHER: Sunny, 65°F SAMPLE TIME: 0958

REMARKS: SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 4 in. STATIC WATER LEVEL: 2.13 ft. WELL DEPTH: 14.29 ft.

LENGTH OF SATURATED ZONE: 12.07 linear ft. ONE WELL VOLUME: 7.8 gals.

THREE WELL VOLUMES = 23.4 gals. ACTUAL VOLUME EVACUATED: 4.5 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~12 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0943	22.62	3.82	14.2	6.32	27	3.97	260	0.32	
0947	22.69	3.79	12.9	6.40	28	3.90	260	0.35	
0953	22.77	3.77	11.8	6.45	28	3.77	260	0.38	
0958	22.86	3.75	11.8	6.51	29	3.70	260	0.41	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1 x 250ml poly H_2SO_4 = ammonia, 1 x 125ml poly H_2SO_4 & 1 x 125 ml poly unpres. = nitrate & nitrite, 1 x 250ml HNO_3 for As, Pb, Ni, Zn, Cr

SAMPLE ID NUMBER(s): EW-1_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11-13-2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/12/15

WELL NO. MW3R WEATHER: Clear + 70's SAMPLE TIME: 1430

REMARKS: ____ SAMPLER(S): P.Gazzo

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 2.00 ft. WELL DEPTH: 10.43 ft.

LENGTH OF SATURATED ZONE: 8 linear ft. ONE WELL VOLUME: 1.4 gals.

THREE WELL VOLUMES = 4.2 gals. ACTUAL VOLUME EVACUATED: ____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 8 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1330	26.33	6.79	228	13.1	-19	.79	250	—	
1335	25.51	6.79	222	13.3	-55	.66	250	2.10	
1340	24.92	6.78	110	13.5	-80	.60	250	3.16	
1345	24.52	6.80	241	13.6	-88	1.02	250	7.16	
1350	24.68	6.88	244	13.4	-85	2.01	250	9.25	
		DRY							

SAMPLE WITHDRAWL METHOD: Per Sample Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrates, Nitrites Arsenic, Lead, Nickel, Zinc

SAMPLE ID NUMBER(s): MW3R-11122015

DECON METHOD: Per Sample Plan

PURGE WATER MANAGEMENT: Drum

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: ____ TIME: ____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

CLIENT: CSXRPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-2015

WELL NO. PDMW-10R WEATHER: Sunny, 70°F SAMPLE TIME: 1048

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.75 ft. WELL DEPTH: 12.31 ft.

LENGTH OF SATURATED ZONE: 9.56 linear ft. ONE WELL VOLUME: 1.6 gals.

THREE WELL VOLUMES = 4.8 gals. ACTUAL VOLUME EVACUATED: 2.4 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~10 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1018	23.64	5.65	23.6	3.05	-77	3.45	300	0.15	
1023	23.43	5.88	12.8	2.87	-109	1.95	300	0.15	
1028	23.27	5.94	5.66	2.88	-121	1.58	300	0.15	
1033	23.27	5.95	3.68	2.70	-126	1.33	300	0.15	
1038	23.25	5.95	3.74	2.46	-128	1.23	300	0.15	
1043	23.24	5.94	5.15	2.23	-130	1.14	300	0.15	
1048	23.27	5.93	5.31	2.12	-131	1.05	300	0.15	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1 x 250 ml H_2SO_4 for ammonia; 1 x 125 ml poly H_2SO_4 and 1 x 125 ml poly unpres for nitrate-nitrite; 1 x 250 ml HNO_3 for As, Pb, N;

SAMPLE ID NUMBER(s): PDMW-10R_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11-13-2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

CLIENT: CSX-RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-11-2015

WELL NO: PDMW-13P WEATHER: Sunny, 54°F SAMPLE TIME: 1012

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.10 ft. WELL DEPTH: 10.48 ft.

LENGTH OF SATURATED ZONE: 8.38 linear ft. ONE WELL VOLUME: 1.4 gals.

THREE WELL VOLUMES = 4.2 gals. ACTUAL VOLUME EVACUATED: 4.4 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~ 8 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0917	20.33	5.19	24.6	0.259	20	2.34	280 ~~600~~	0.08	
0922	21.56	5.20	19.6	0.156	-2	1.46	280	0.08	
0927	21.76	5.20	17.4	0.145	-10	1.04	280	0.08	
0932	21.87	5.21	14.9	0.145	-12	0.84	280	0.08	
0937	22.01	5.23	15.6	0.140	-17	0.70	280	0.08	
0942	22.18	5.23	17.6	0.126	-18	0.63	280	0.08	
0947	22.23	5.16	16.5	0.129	-17	0.78	280	0.08	
0952	22.28	5.15	15.6	0.132	-25	0.65	280	0.08	
0957	22.28	5.25	16.1	0.135	-27	0.60	280	0.08	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia = 1 x 250 ml poly H_2SO_4; nitrate and nitrite = 1x125 ml unpres; 1x125 ml H_2SO_4; As, Pb, Ni, Zn = 1x250 ml poly HNO_3

SAMPLE ID NUMBER(s): PDMW-13P_11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/12/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

CLIENT: CSX-RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-11-2015

WELL NO. PDMW-13P WEATHER: Sunny, 54°F SAMPLE TIME: 1012

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.10 ft. WELL DEPTH: 10.48 ft.

LENGTH OF SATURATED ZONE: 8.38 linear ft. ONE WELL VOLUME: 1.4 gals.

THREE WELL VOLUMES = 4.2 gals. ACTUAL VOLUME EVACUATED: 4.4 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~8 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1002	22.38	5.21	15.9	0.138	-26	0.58	280	0.08	
1007	22.49	5.24	17.4	0.131	-29	0.53	280	0.08	
1012	22.52	5.26	16.3	0.130	-29	0.53	280	0.08	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1 x 250ml H_2SO_4 for ammonia; 1x125ml poly unpres & 1x125ml poly H_2SO_4 for nitrate & nitrite; 1x250ml poly HNO_3 for As, Pb, Ni, Zn

SAMPLE ID NUMBER(s): PDMW-13P_11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11-12-2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/12/15

WELL NO: PDMW19P WEATHER: clear 40's SAMPLE TIME: 0930

REMARKS: _____ SAMPLER(S): P.Graziano

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 2.63 ft. WELL DEPTH: 10.36 ft.

LENGTH OF SATURATED ZONE: 7.73 linear ft. ONE WELL VOLUME: 1.3 gals.

THREE WELL VOLUMES = 3.9 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 6' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0855	17.17	6.29	56	.720	69	3.23	150	—	
0900	17.64	6.47	53	.674	13	1.99	150	1.01	
0905	18.80	6.57	40	.657	-31	1.44	150	1.02	
0910	19.27	6.52	28	.645	-52	1.16	150	1.02	
0915	19.71	6.54	11	.638	-63	.99	150	1.06	
0920	19.90	6.07	7	.635	-63	.92	150	1.06	
0925	19.92	6.55	3	.636	-65	.98	150	1.06	
0930	19.94	6.55	1	.637	-68	.97	150	1.06	

SAMPLE WITHDRAWL METHOD: Per the Sample Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrates, Nitrites ARSENIC, Lead, Nickel

SAMPLE ID NUMBER(s): PDMW-19P. 11122015

DECON METHOD: Per the Sample Plan

PURGE WATER MANAGEMENT: Drums

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: _____ TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

CLIENT: CSX RPT LOCATION: Hutchinson Island, Savannah, GA DATE: 11-11-2015

WELL NO. PDMW-23R WEATHER: Sunny, 66°F SAMPLE TIME: 1217

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 3.16 ft. WELL DEPTH: 11.23 ft.

LENGTH OF SATURATED ZONE: 8.07 linear ft. ONE WELL VOLUME: 1.3 gals.

THREE WELL VOLUMES = 3.9 gals. ACTUAL VOLUME EVACUATED: 3.2 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~9 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1142	23.10	5.79	19.1	0.452	-55	7.35	300	0.10	
1147	23.19	5.82	11.3	0.465	-70	6.70	300	0.10	
1152	23.29	5.82	13.7	0.476	-81	6.26	300	0.10	
1157	23.40	5.83	8.77	0.483	-89	5.77	300	0.10	
1202	23.48	5.82	10.1	0.485	-95	5.38	300	0.10	
1207	23.57	5.82	8.85	0.484	-100	5.07	300	0.10	
1212	23.65	5.80	8.09	0.483	-103	4.71	300	0.10	
1217	23.70	5.84	7.37	0.482	-109	4.54	300	0.10	

SAMPLE WITHDRAWL METHOD: Per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x250ml poly H_2SO_4 for ammonia; 1x125ml poly unpres & 1x250ml poly H_2SO_4 for nitrate & nitrite; 1x250ml poly HNO_3 for Pb, As

SAMPLE ID NUMBER(s): PDMW-23R_11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11-12-2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: CSX RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-2015

WELL NO. PDMW-26T WEATHER: Sunny, 76° F SAMPLE TIME: _____

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.03 ft. WELL DEPTH: 9.93 ft.

LENGTH OF SATURATED ZONE: 7.90 linear ft. ONE WELL VOLUME.: 1.3 gals.

THREE WELL VOLUMES = 3.9 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~7 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1250	23.83	6.50	115	9.16	-26	4.96	300	0.67	
1255	22.61	6.61	84.6	9.35	-74	3.87	300	1.46	
1300	22.80	6.55	68.6	9.34	-114	3.63	140	1.32	
1305	22.73	6.51	49.7	9.38	-127	3.51	140	1.20	
1310	22.69	6.49	42.7	9.39	-137	3.32	140	1.17	
1315	22.69	6.48	34.1	9.39	-144	3.24	140	1.12	
1320	22.79	6.46	28.9	9.41	-151	3.73	140	0.99	
1325	22.80	6.45	29.5	9.42	-155	3.14	140	0.97	
1330	22.72	6.45	27.7	9.43	-159	3.00	140	1.12	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x250ml poly H_2SO_4 for ammonia; 1x125ml poly H_2SO_4 & 1x125ml poly unpres for nitrate-nitrite; 1x250ml poly HNO_3 for Pb, As

SAMPLE ID NUMBER(s): PDMW-26T_11122015 and DUP-01_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/13/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: CSX RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-2015

WELL NO: PDMW-26T WEATHER: Sunny, 76°F SAMPLE TIME: 1355

REMARKS: _____ SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.03 ft. WELL DEPTH: 9.93 ft.

LENGTH OF SATURATED ZONE: 7.90 linear ft. ONE WELL VOLUME : 1.3 gals.

THREE WELL VOLUMES = 3.9 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~7 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1335	22.73	6.43	22.6	9.43	-160	2.94	140	1.12	
1340	22.73	6.42	18.5	9.43	-163	2.85	140	1.16	
1345	22.70	6.40	12.8	9.42	-164	2.77	140	1.26	
1350	22.71	6.38	10.4	9.39	-166	2.67	140	1.22	
1355	22.72	6.38	8.56	9.37	-167	2.59	140	1.30	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1 x 250 ml poly H_2SO_4 for ammonia; 1 x 250 ml HNO_3 for Pb, As;

1 x 125 ml poly unpres & 1 x 125 ml poly H_2SO_4 for nitrate & nitrite

SAMPLE ID NUMBER(s): PDMW-26T_11122015 and DUP-01_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/13/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: CSX-RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-11-2015

WELL NO. PDMW-32R WEATHER: Sunny, 63°F SAMPLE TIME: 1112

REMARKS: _____ SAMPLER(S): JJS

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 3.56 ft. WELL DEPTH: 7.28 ft.

LENGTH OF SATURATED ZONE: 3.72 linear ft. ONE WELL VOLUME: 0.6 gals.

THREE WELL VOLUMES = 1.8 gals. ACTUAL VOLUME EVACUATED: 2.5 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~ 5 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1042	21.86	5.53	35.2	0.997	-25	1.87	280	0.16	
1047	21.67	5.20	17.1	0.834	11	1.77	280	0.16	
1052	21.61	5.16	5.10	0.832	16	1.33	280	0.16	
1057	21.57	5.11	2.96	0.825	20	0.98	280	0.16	
1102	21.55	5.11	2.25	0.849	14	0.84	280	0.16	
1107	21.53	5.08	2.10	0.841	11	0.81	280	0.16	
1112	21.53	5.08	2.35	0.843	8	0.78	280	0.16	

SAMPLE WITHDRAWL METHOD: Peristaltic Pump

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x250ml poly w/ H_2SO_4 For Ammonia; 1x125ml poly unpres. & 1x125ml poly H_2SO_4 for nitrate & nitrite; 1x250ml poly HNO_3 For As, Pb, Ni, Zn

SAMPLE ID NUMBER(s): PDMW-32R_11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/12/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/11/15

WELL NO. PDmw-33R2 WEATHER: clear and 70's SAMPLE TIME: 1055

REMARKS: _____ SAMPLER(S): PGA220

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 3.31 ft. WELL DEPTH: 17.49 ft.

LENGTH OF SATURATED ZONE: 14.18 linear ft. ONE WELL VOLUME : 2.4 gals.

THREE WELL VOLUMES = 7.2 gals. ACTUAL VOLUME EVACUATED: 3.7 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 12.5' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1020	20.11	6.68	7	10	-95	2.01	400	—	
1025	20.20	6.67	6	10	-94	1.66	400	.38	
1030	20.73	6.73	3	10	-94	.81	400	.33	
1035	20.72	6.73	3	10	-94	.93	400	.34	
1040	20.85	6.69	5	10	-93	.84	400	.33	
1045	20.81	6.69	6	10	-93	.81	400	.33	
1050	20.87	6.69	6	10	-93	.83	400	.33	
1055	20.87	6.69	6	10	-93	.83	400	.33	

SAMPLE WITHDRAWL METHOD: Per The SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrate, Nitrate Arsenic, Lead

SAMPLE ID NUMBER(s): PDmw-33R2-11112015

DECON METHOD: Per the SAP

PURGE WATER MANAGEMENT: Drums

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11 TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/10/15

WELL NO. PDMW-45R WEATHER: Clear, Partly SAMPLE TIME: 1600

REMARKS: _____ SAMPLER(S): [illegible]

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.68 ft. WELL DEPTH: 20.20 ft.

LENGTH OF SATURATED ZONE: 17.52 linear ft. ONE WELL VOLUME: 2.97 gals.

THREE WELL VOLUMES = 8.9 gals. ACTUAL VOLUME EVACUATED: [illegible] gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 13' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1530	22.18	7.02	54	2.57	-54	1.64	450	—	
1535	21.97	7.00	33	2.50	-60	1.53	450	.10	
1540	21.78	6.98	25	3.00	-73	1.98	450	.10	
1545	21.32	7.01	12	2.99	-90	.80	450	.10	
1550	21.30	7.01	9	2.98	-92	.79	450	.10	
1555	21.31	7.01	7	2.98	-93	.98	450	.10	
1600	21.31	7.01	5	2.97	-93	.77	450	.10	

SAMPLE WITHDRAWL METHOD: Per the Sample PLAN

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrates, Nitrite, Arsenic, Lead, Nickel

SAMPLE ID NUMBER(s): PDMW-45R-11112015

DECON METHOD: Per the Sample Plan

PURGE WATER MANAGEMENT: Drum

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: _____ TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: PDMW46 LOCATION: Hutchinson Island DATE: 11/11/15

WELL NO. CSX WEATHER: clear mid 70s SAMPLE TIME: 1510

REMARKS: ____ SAMPLER(S): D. Gnazzo

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 5.83 ft. WELL DEPTH: 11.19 ft.

LENGTH OF SATURATED ZONE: 5.36 linear ft. ONE WELL VOLUME : .91 gals.

THREE WELL VOLUMES = 2.7 gals. ACTUAL VOLUME EVACUATED: ____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 7' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1440	25.69	6.79	30	.846	-98	2.39	300	—	
1445	25.57	6.78	21	.787	-82	1.79	300	.25	
1450	24.84	6.81	20	.528	-69	.90	300	.15	
1455	24.44	6.82	12	.496	-90	.76	300	.15	
1500	24.42	6.82	9	.496	-91	.75	300	.15	
1505	24.41	6.83	7	.493	-82	.74	300	.15	
1510	24.35	6.83	5	.492	-83	.74	300	.15	

SAMPLE WITHDRAWL METHOD: Per Sample Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrates, Nitrites, Arsenic, Lead

SAMPLE ID NUMBER(s): PDMW-46-111215

DECON METHOD: Per Sample Plan

PURGE WATER MANAGEMENT: Drum

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: ____ TIME: ____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchison Island DATE: 11/11/15

WELL NO. PDMW 47 WEATHER: clear and 70's SAMPLE TIME: 1155

REMARKS: _____ SAMPLER(S): P Grazio

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 3.57 ft. WELL DEPTH: 11.42 ft.

LENGTH OF SATURATED ZONE: 7.85 linear ft. ONE WELL VOLUME: 1.3 gals.

THREE WELL VOLUMES = 4 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 8 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1115	21.57	6.46	48	7.79	-110	0.32	250	—	
1120	21.65	6.44	53	7.47	-95	1.90	250	.37	
1125	22.22	6.38	65	6.32	-82	.88	250	.37	
1130	22.62	6.38	60	6.49	-88	.72	250	.38	
1135	22.64	6.38	25	6.49	-88	.72	250	.38	
1140	22.84	6.38	21	6.48	-93	.70	250	.39	
1145	23.00	6.38	10	6.50	-93	.71	250	.39	
1150	23.01	6.38	7	6.49	-93	.71	250	.39	
1155	23.01	6.38	5	6.50	-93	.71	250	.35	

SAMPLE WITHDRAWL METHOD: Per the SAP Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, nitrate, nitrite, ARSENIC, LEAD

SAMPLE ID NUMBER(s): PDMW-47-11112015

DECON METHOD: Per the SAP Plan

PURGE WATER MANAGEMENT: Drums

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: _____ TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

CLIENT: CSXRPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11/11/2015

WELL NO. PDMW-48 WEATHER: Sunny, 74°F SAMPLE TIME: 1607

REMARKS: SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 3.09 ft. WELL DEPTH: 9.38 ft.

LENGTH OF SATURATED ZONE: 6.29 linear ft. ONE WELL VOLUME: 1.0 gals.

THREE WELL VOLUMES = 3.0 gals. ACTUAL VOLUME EVACUATED: 6.6 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~7 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1447	22.79	6.24	207	11.7	-100	3.48	~~0.88~~ 300 (S3)	0.88	
1452	22.74	6.37	227	12.2	-139	2.97	220	0.86	
1457	22.97	6.37	175	12.6	-153	2.60	220	0.90	
1502	22.91	6.38	148	12.8	-160	2.20	220	0.93	
1507	22.88	6.38	123	12.9	-166	2.14	220	0.95	
1512	22.82	6.38	108	13.0	-171	1.73	220	1.04	
1517	22.73	6.38	94.2	13.1	-175	1.64	220	1.13	
1522	22.70	6.37	78.6	13.1	-176	1.57	220	1.19	
1527	22.66	6.37	60.0	13.1	-177	1.49	220	1.21	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x 250ml poly H_2SO_4 for ammonia; 1x125ml poly H_2SO_4 and 1x125 ml poly unpres for nitrate-nitrite.

SAMPLE ID NUMBER(s): PDMW-48_~~2015~~ (S3) 11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/12/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: CSX RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11/11/15

WELL NO. PDMW-48 WEATHER: Sunny, 74°F SAMPLE TIME: 1607

REMARKS: SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 3.09 ft. WELL DEPTH: 9.38 ft.

LENGTH OF SATURATED ZONE: 6.29 linear ft. ONE WELL VOLUME: 1.0 gals.

THREE WELL VOLUMES = 3.0 gals. ACTUAL VOLUME EVACUATED: 6.6 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: ~7 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1532	22.61	6.38	44.6	13.1	-180	1.36	220	1.26	
1537	22.56	6.38	33.4	13.2	-181	1.26	220	1.28	
1542	22.54	6.39	26.9	13.2	-182	1.22	220	1.31	
1547	22.46	6.39	19.8	13.2	-184	1.16	220	1.36	
1552	22.43	6.40	17.8	13.2	-185	1.19	220	1.39	
1557	22.40	6.40	16.5	13.3	-187	1.16	220	1.43	
1602	22.35	6.40	11.1	13.3	-186	1.10	220	1.45	
1607	22.32	6.39	10.0	13.3	-186	1.12	220	1.47	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x 250ml poly H_2SO_4 for ammonia, 1x125ml poly H_2SO_4 and 1x125 ml poly unpres for nitrate and nitrite

SAMPLE ID NUMBER(s): ~~per~~ PDMW-48_11112015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: Per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/12/2015 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

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GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/11/15

WELL NO. PDMW 53 WEATHER: Clear 70s SAMPLE TIME: 0955

REMARKS: PDMW53 SAMPLER(S): Paul Cuzzo

WELL PURGING: WELL DIAMETER: 4.20 2" in. STATIC WATER LEVEL: 4.20 ft. WELL DEPTH: 12.52 ft.

LENGTH OF SATURATED ZONE: 8.32 linear ft. ONE WELL VOLUME : 1.41 gals.

THREE WELL VOLUMES = 4.24 gals. ACTUAL VOLUME EVACUATED: 3.23 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 8.5 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0920	18.06	6.35	54	9.12	58	4.08	350	-	
0925	18.47	6.42	57	9.09	3	3.64	350	.40	
0930	19.84	6.54	31	9.54	-60	1.55	350	.41	
0935	20.20	6.60	10	10.1	-78	1.15	350	.48	
0940	20.80	6.69	7	10.4	-95	1.25	350	.47	
0945	20.84	6.69	3	10.4	-96	1.19	350	.48	
0950	20.84	6.70	3	10.4	-97	1.18	350	.48	
0955	21.10	6.70	2	10.5	-99	1.18	350	.48	

SAMPLE WITHDRAWL METHOD: Sample Per The SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrates, Nitrates 3 JARS

SAMPLE ID NUMBER(s): PDMW 53 11 11 2015

DECON METHOD: Per the SAP

PURGE WATER MANAGEMENT: Drums

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/11/15 TIME: ____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

CLIENT: ~~TAMW-1~~ CSX-RPI LOCATION: Hutchinson Island, Savannah, GA DATE: 11-12-15

WELL NO. TMW-1 WEATHER: Sunny, 80°F SAMPLE TIME: 1513

REMARKS: SAMPLER(S): JJJ

WELL PURGING: WELL DIAMETER: 2 in. STATIC WATER LEVEL: 2.90 ft. WELL DEPTH: 10.02 ft.

LENGTH OF SATURATED ZONE: 7.12 linear ft. ONE WELL VOLUME: 1.2 gals.

THREE WELL VOLUMES = 3.6 gals. ACTUAL VOLUME EVACUATED: 1.9 gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 2 8 ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1438	25.23	7.39	12.2	14.5	-159	2.37	180	0.61	
1443	25.33	7.50	7.38	15.3	-163	1.72	180	1.07	
1448	25.59	7.51	4.70	15.8	-152	1.41	180	1.28	
1453	25.98	7.53	3.92	16.1	-140	1.27	180	1.33	
1503	26.53	7.56	3.49	16.2	-126	1.31	180	1.55	
1508	26.62	7.57	5.05	16.2	-124	1.25	180	1.53	
1513	26.94	7.58	4.78	16.2	-119	1.20	180	1.52	

SAMPLE WITHDRAWL METHOD: per SAP

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

1x250 ml H_2SO_4 for ammonia; 1x 250ml poly ~~H_2~~ HNO_3 For As, Pb, Zn, Cr, and Ni; 1x125ml poly unpres & 1x125 ml poly H_2SO_4 for nitrate-nitrite

SAMPLE ID NUMBER(s): TMW-1_~~2015~~ 11122015 & DUP-02_11122015

DECON METHOD: per SAP

PURGE WATER MANAGEMENT: per SAP

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: 11/13/15 0800 TIME: 0800

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: HUTCHINSON ISLAND DATE: 11/12/15

WELL NO. TMW 4R WEATHER: clear 70s SAMPLE TIME: ~~1030~~ 1030

REMARKS: _____ SAMPLER(S): PCA220

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL 2.81 ft. WELL DEPTH: 12.65 ft.

LENGTH OF SATURATED ZONE: 9.84 linear ft. ONE WELL VOLUME: 1.7 gals.

THREE WELL VOLUMES = 5 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 7' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
0955	22.47	6.61	11	2.32	-56	1.53	350	—	
1000	22.63	6.62	12	2.33	-60	1.30	350	.35	
1005	23.11	6.61	24	2.42	-75	.70	350	.33	
1010	23.16	6.60	23	2.42	-76	.69	350	.31	
1015	23.22	6.61	16	2.40	-77	.66	350	.31	
1020	23.27	6.61	10	2.39	-78	.64	350	.31	
1025	23.29	6.61	7	2.39	-77	.64	350	.32	
1030	23.36	6.60	8	2.39	-77	.64	350	.31	

SAMPLE WITHDRAWL METHOD: Per the Sample Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia Nitrate, Nitrite, Arsenic, Lead

SAMPLE ID NUMBER(s): TMW-4R-111215

DECON METHOD: Per the Sample Plan

PURGE WATER MANAGEMENT: Drums

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: _____ TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

amec

GROUNDWATER SAMPLING LOG

Page ____ of ____

CLIENT: CSX LOCATION: Hutchinson Island DATE: 11/12/15

WELL NO. PDmw-8R WEATHER: Clear + 70's SAMPLE TIME: 1300

REMARKS: _____ SAMPLER(S): P. Gazzo

WELL PURGING: WELL DIAMETER: 2" in. STATIC WATER LEVEL: 3.34 ft. WELL DEPTH: 12.88 ft.

LENGTH OF SATURATED ZONE: 9.54 linear ft. ONE WELL VOLUME: 1.6 gals.

THREE WELL VOLUMES = 4.8 gals. ACTUAL VOLUME EVACUATED: _____ gals.

PURGE METHOD: Peristaltic Pump DEPTH OF PUMP INTAKE: 7' ft

WELL PURGE DATA:

TIME	TEMP (C)	pH	TURB. (NTU)	COND. (mS/cm)	ORP (mV)	DO (ppm)	flow rate (ml/min)	draw down (ft)	COMMENTS
1230	26.15	6.65	3	6.27	10	1.35	450	—	
1235	25.63	6.64	1	6.29	-4	1.14	450	.02	
1240	24.18	6.63	0.0	6.39	-78	.89	550	.09	
1245	23.91	6.64	0	6.24	-99	.73	450	.12	
1250	23.72	6.67	5	6.13	-100	.66	450	.13	
1255	23.74	6.69	0	5.91	-101	.64	450	.24	
1300	23.76	6.69	0	5.90	-102	.64	450	.26	

SAMPLE WITHDRAWL METHOD: Per The Sample Plan

LABORATORY ANALYSIS, SAMPLE CONTAINERS USED INCLUDING NUMBER, TYPE, AND PRESERVATIVES:

Ammonia, Nitrate, Nitrite, Arsenic, Lead, Nickel

SAMPLE ID NUMBER(s): PDmw-8R-11122015

DECON METHOD: Per the Sample Plan

PURGE WATER MANAGEMENT: Drum

SAMPLES DELIVERED TO: Test America, Savannah, GA TRANSPORTER: Test America, Savannah, GA

DATE: _____ TIME: _____

CASING CAPACITY (gallons/linear foot)

1"= 0.04, 2" = 0.16, 4" = 0.65, 6" = 1.47, 8" = 2.6, 10" = 4.08, 12" = 5.87

Low Flow Stabilization Parameters: pH(+/-0.1), Cond. (+/-3%), ORP (+/-10mV), D.O. (+/-10%), Turbidity (+/-10%)

APPENDIX C
BIOCHLOR OUTPUT SHEETS

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Hutchinson Island
TMW-1 - Canal
Run Name

Data Input Instructions:

115 ← or → 0.02

1. Enter value directly....or
2. Calculate by filling in gray cells. Press Enter, then (C)

(To restore formulas, hit "Restore Formulas" button)

Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CONSTITUENT: Ammonia (◉) Ethanes (○)

1. ADVECTION

Seepage Velocity*	Vs	22.3	(ft/yr)
or			
Hydraulic Conductivity	K	7.8E-04	(cm/sec)
Hydraulic Gradient	i	0.0069	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	10	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
Ammonia	14	(L/kg)	10.00	(-)
Nitrite	24	(L/kg)	1.16	(-)
Nitrate	0	(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)

Common R (used in model)* = 10.00

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

		λ (1/yr)	half-life (yrs)	Yield
Zone 1				
NH3 →	Nitrite	0.385	1.80	0.79
Nitrite →	Nitrate	0.693	1.00	0.74
→		0.000		0.64
→		0.000		0.45
Zone 2		λ (1/yr)	half-life (yrs)	
→		0.000		
→		0.000		
→		0.000		
→		0.000		

λ HELP

5. GENERAL

Simulation Time*	40	(yr)
Modeled Area Width*	300	(ft)
Modeled Area Length*	320	(ft)
Zone 1 Length*	320	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying Single Planar

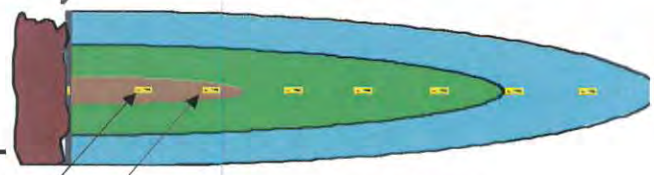
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Y1
Width* (ft) 300

Conc. (mg/L)*	C1	k_s* (1/yr)
Ammonia	18000.0	0.04
Nitrite	.19	0.04
Nitrate	280.0	0.04
		0.04
		0.04

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

Ammonia Conc. (mg/L)	3600.0	28.0	.63								
Nitrite Conc. (mg/L)	.05	.11	.05								
Nitrate Conc. (mg/L)	250.0	.11	.05								
Distance from Source (ft)	0	120	320								
Date Data Collected	2015										

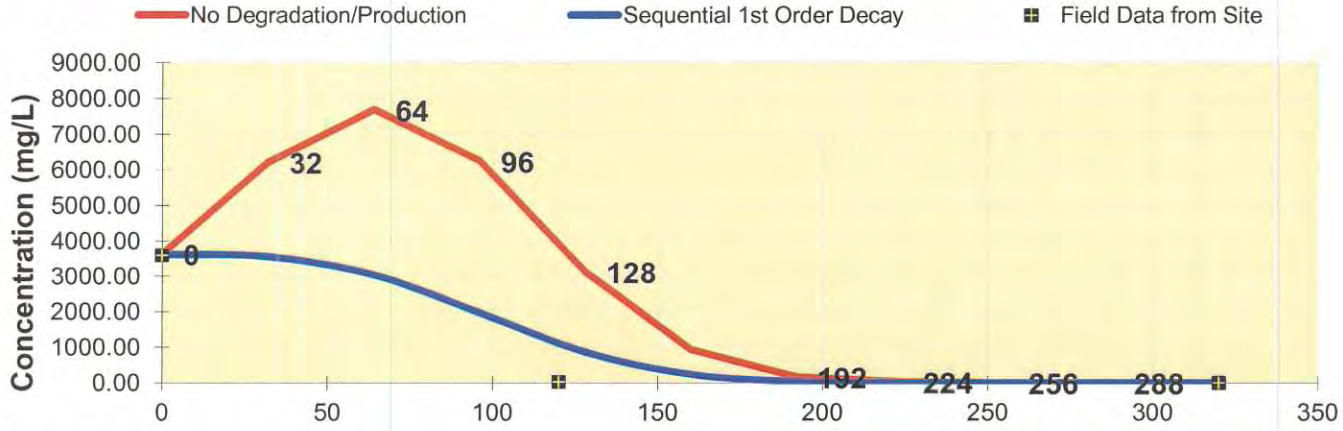
8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Ammonia	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	3634.138	6208.138	7687.647	6234.911	3120.036	931.753	162.921	16.490	0.959	0.018	0.000
Biotransformation	3634.1373	3566.089	3046.452	1976.380	867.803	239.613	39.890	3.910	0.214	0.005	0.000

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	3600.000	28.000	0.630								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

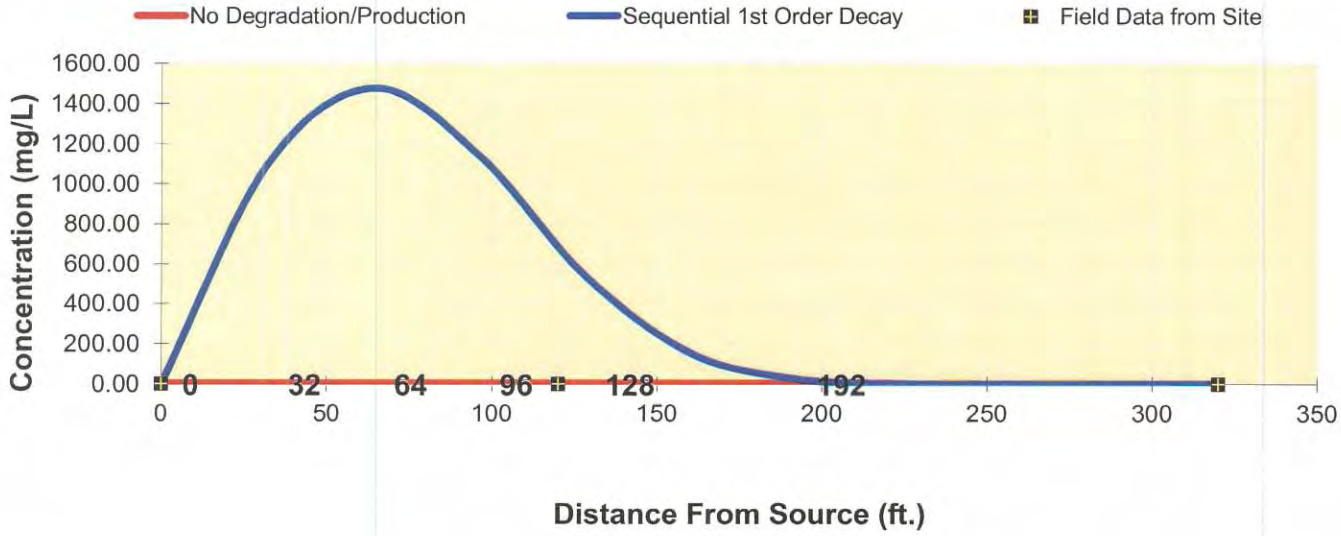
To All

To Array

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Nitrite	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	0.038	0.066	0.081	0.066	0.033	0.010	0.002	0.000	0.000	0.000	0.000
Biotransformation	0.0388	1096.106	1474.690	1141.417	543.477	156.411	26.651	2.656	0.164	0.003	0.000

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050	0.110	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

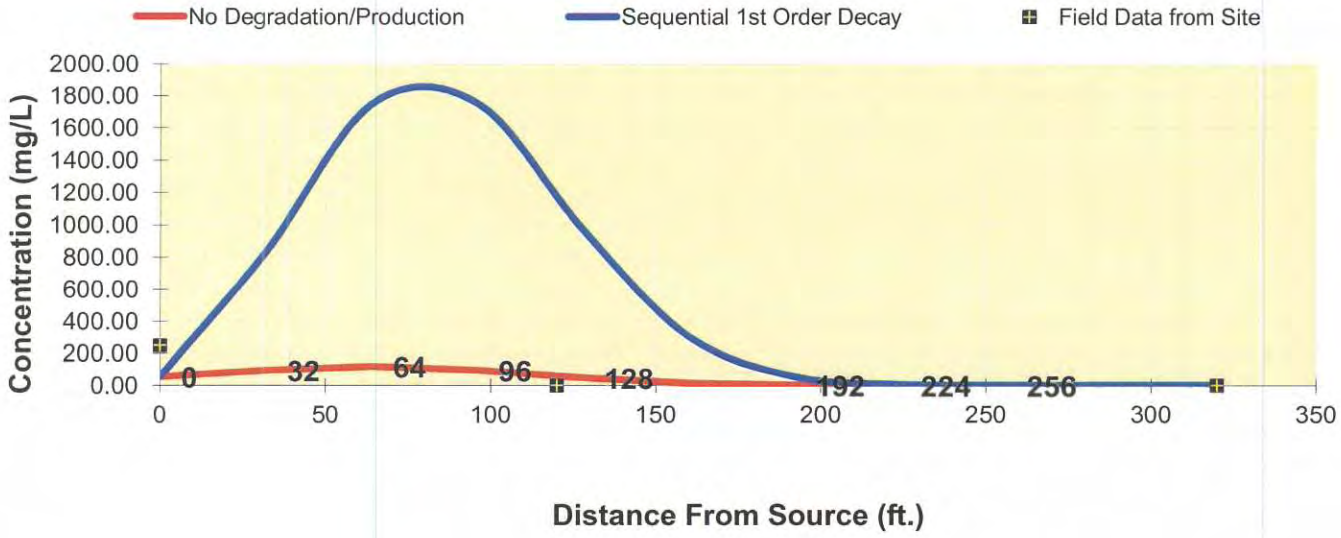
To All

To Array

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Nitrate	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	56.531	96.571	119.586	96.988	48.534	14.494	2.534	0.257	0.015	0.000	0.000
Biotransformation	56.5311	837.091	1752.846	1751.687	968.050	304.894	55.004	5.672	0.330	0.014	0.000

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	250.000	0.110	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Hutchinson Island
TMW-1 - Canal
Run Name

Data Input Instructions:
115 → 1. Enter value directly....or
↑ or 2. Calculate by filling in gray
0.02 cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CONSTITUENT: Ammonia ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	22.3	(ft/yr)
or			
Hydraulic Conductivity	K	7.8E-04	(cm/sec)
Hydraulic Gradient	i	0.0069	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	10	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R				
or				
Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
Ammonia	14	(L/kg)	10.00	(-)
Nitrite	24	(L/kg)	1.16	(-)
Nitrate	0	(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
Common R (used in model)* =			**10.00**	

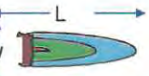
4. BIOTRANSFORMATION -1st Order Decay Coefficient*

	λ (1/yr)		half-life (yrs)	Yield
Zone 1				
NH3 → Nitrite	0.385	←	1.80	0.79
Nitrite → Nitrate	0.693	←	1.00	0.74
→	0.000	←		0.64
→	0.000	←		0.45
Zone 2	λ (1/yr)		half-life (yrs)	
→	0.000	←		
→	0.000	←		
→	0.000	←		
→	0.000	←		

λ HELP

5. GENERAL

Simulation Time*	70	(yr)	
Modeled Area Width*	300	(ft)	
Modeled Area Length*	320	(ft)	
Zone 1 Length*	320	(ft)	
Zone 2 Length*	0	(ft)	Zone 2= L - Zone 1



6. SOURCE DATA TYPE: Decaying Single Planar

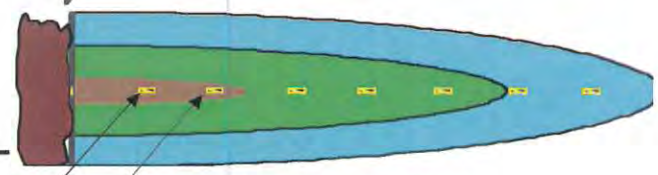
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Y1
Width* (ft) 300

Conc. (mg/L)*	C1	k_s* (1/yr)
Ammonia	18000.0	0.04
Nitrite	.19	0.04
Nitrate	280.0	0.04
		0.04
		0.04

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

Ammonia Conc. (mg/L)	3600.0	28.0	.63
Nitrite Conc. (mg/L)	.05	.11	.05
Nitrate Conc. (mg/L)	250.0	.11	.05
Distance from Source (ft)	0	120	320
Date Data Collected	2015		

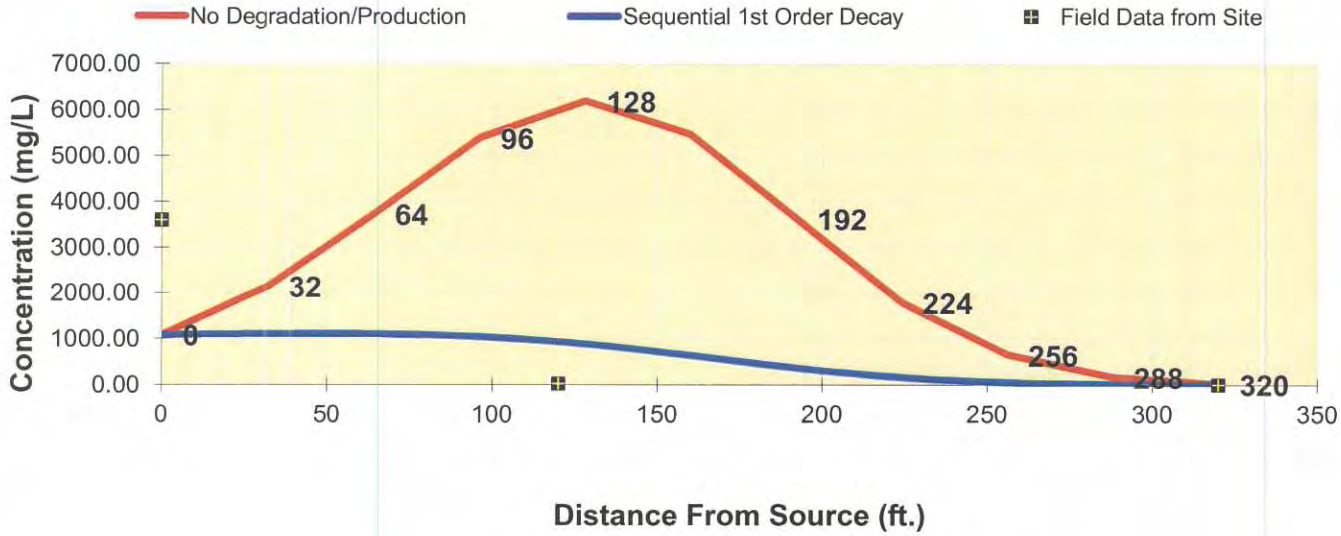
8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Ammonia	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	1094.581	2150.493	3733.249	5392.801	6187.727	5463.544	3636.937	1801.302	658.081	176.318	21.465
Biotransformation	1094.5811	1113.798	1111.807	1050.903	891.212	639.678	369.950	166.365	56.799	14.514	1.984

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	3600.000	28.000	0.630								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

Return to Input

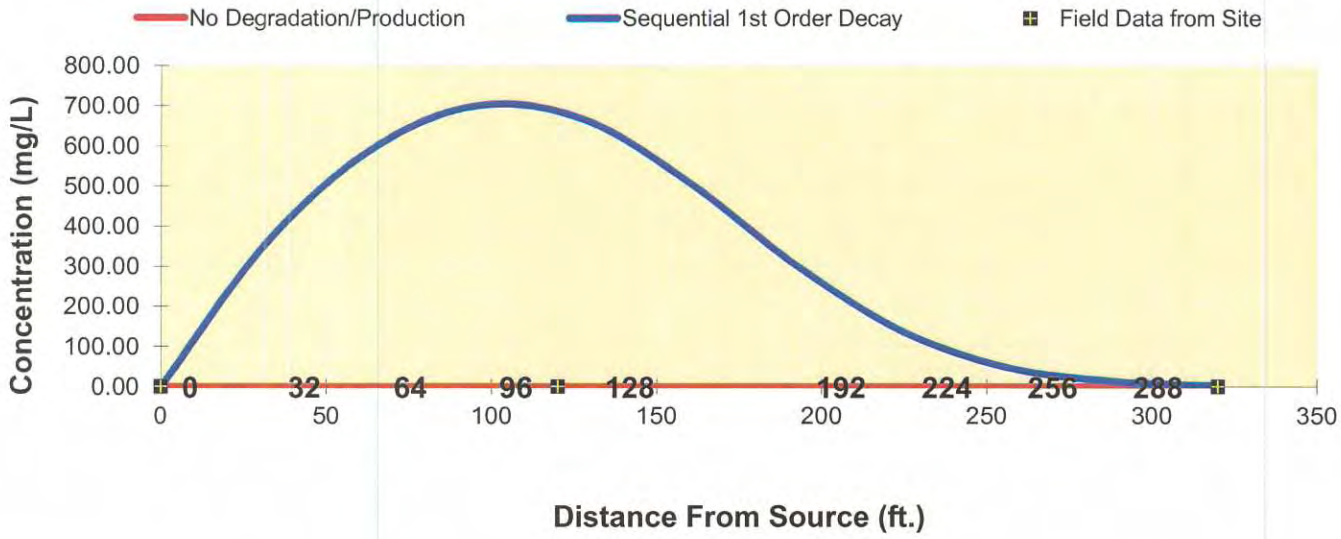
To All

To Array

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Nitrite	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	0.012	0.023	0.039	0.057	0.065	0.058	0.038	0.019	0.007	0.002	0.000
Biotransformation	0.0117	360.804	595.093	701.661	665.901	507.815	303.891	139.448	48.136	12.815	1.688

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050	0.110	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

Return to Input

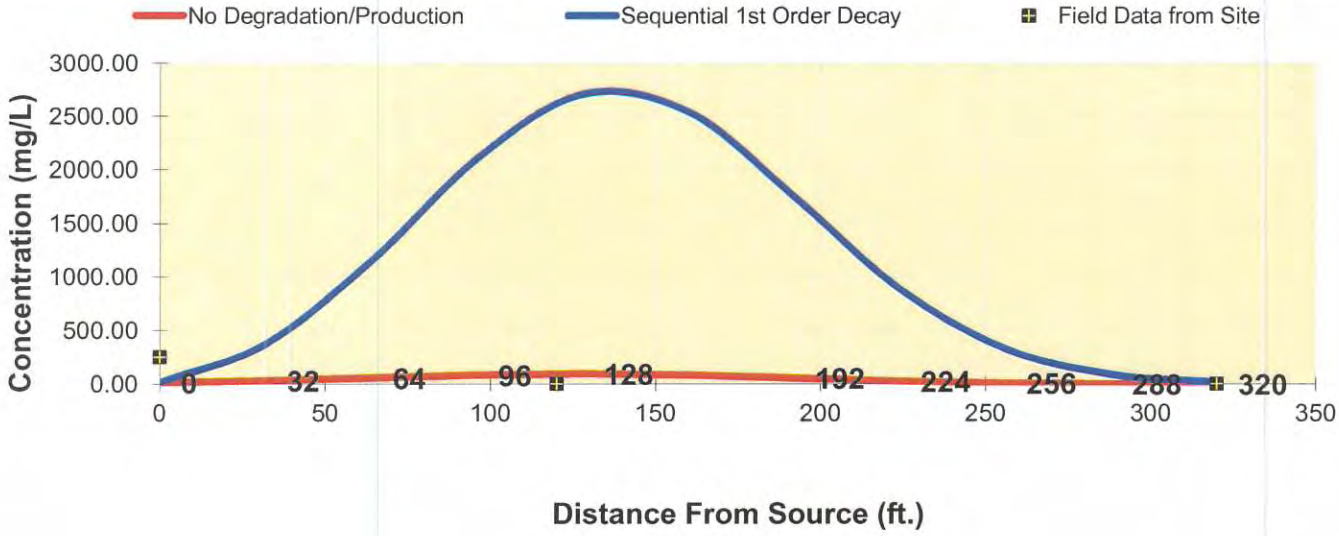
To All

To Array

AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Nitrate	Distance from Source (ft)										
	0	32	64	96	128	160	192	224	256	288	320
No Degradation	17.027	33.452	58.073	83.888	96.254	84.988	56.575	28.020	10.237	2.743	0.537
Biotransformation	17.0269	375.114	1155.962	2111.746	2710.092	2538.330	1747.631	883.610	327.220	88.144	18.357

	Monitoring Well Locations (ft)										
	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	250.000	0.110	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Hutchinson Island
EW-1 - River
Run Name

Data Input Instructions:
115 → 1. Enter value directly....or
↑ or 0.02 → 2. Calculate by filling in gray cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CONSTITUENT: Ammonia ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	62.1	(ft/yr)
or			
Hydraulic Conductivity	K	3.0E-03	(cm/sec)
Hydraulic Gradient	i	0.005	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	10	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R
or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
Ammonia	14	(L/kg)	7.00	(-)
Nitrite	24	(L/kg)	1.16	(-)
Nitrate	0	(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
Common R (used in model)* =			**7.00**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

	λ (1/yr)		half-life (yrs)	Yield
Zone 1				
NH3 → Nitrite	0.385	←	1.80	0.79
Nitrite → Nitrate	0.231	←	3.00	0.74
→	0.000	←		0.64
→	0.000	←		0.45
Zone 2	λ (1/yr)		half-life (yrs)	
→	0.000	←		
→	0.000	←		
→	0.000	←		
→	0.000	←		

λ HELP

5. GENERAL

Simulation Time*	40	(yr)	
Modeled Area Width*	300	(ft)	W
Modeled Area Length*	540	(ft)	
Zone 1 Length*	540	(ft)	
Zone 2 Length*	0	(ft)	Zone 2= L - Zone 1

L

6. SOURCE DATA

TYPE: Decaying
Single Planar

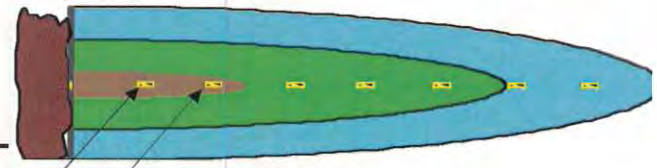
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Y1
Width* (ft) 300

Conc. (mg/L)*	C1	k_s* (1/yr)
Ammonia	1100.0	0.035
Nitrite		0.035
Nitrate		0.035
		0.035
		0.035

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

Ammonia Conc. (mg/L)	270.0	7.9	1.1								
Nitrite Conc. (mg/L)	.05	.0.73	.05								
Nitrate Conc. (mg/L)	.05	.05	.05								
Distance from Source (ft)	0	160	500								
Date Data Collected	2015	2013									

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

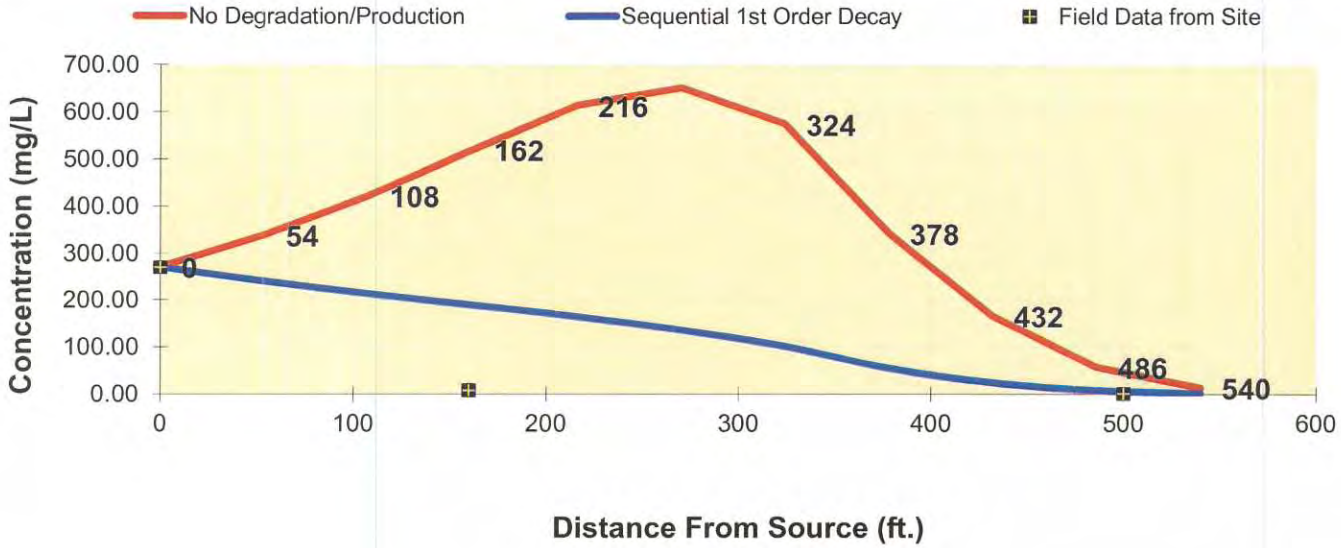
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Ammonia	0	54	108	162	216	270	324	378	432	486	540
No Degradation	271.257	338.718	422.148	519.992	613.273	650.851	574.491	342.820	165.552	56.913	13.636
Biotransformation	271.2567	240.782	213.658	189.012	164.558	135.855	101.355	54.661	24.287	7.885	1.815

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	270.000	7.900	1.100								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

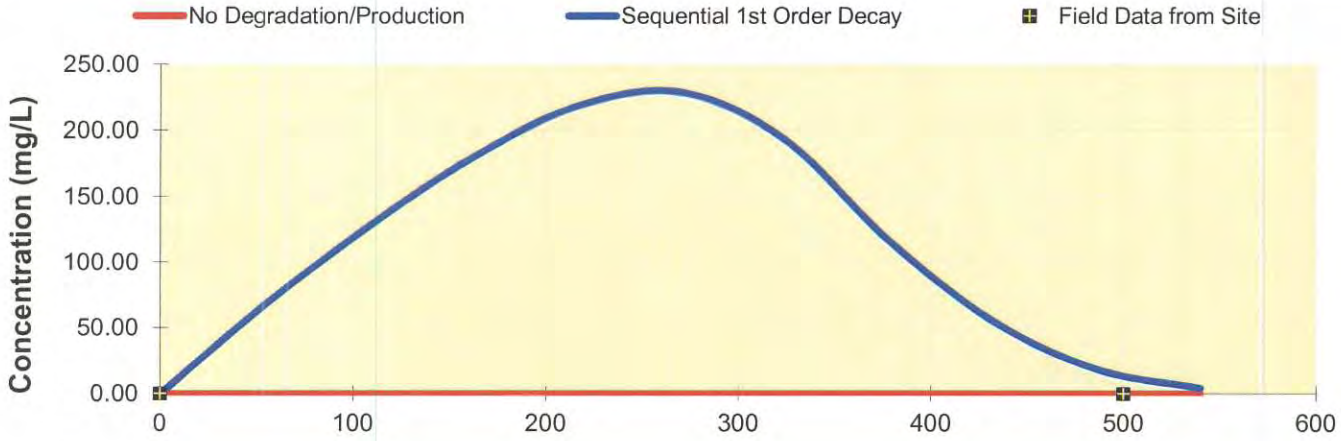
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Nitrite	0	54	108	162	216	270	324	378	432	486	540
No Degradation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0000	67.156	127.355	179.756	218.416	228.943	193.265	116.783	55.480	18.833	4.469

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050		0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

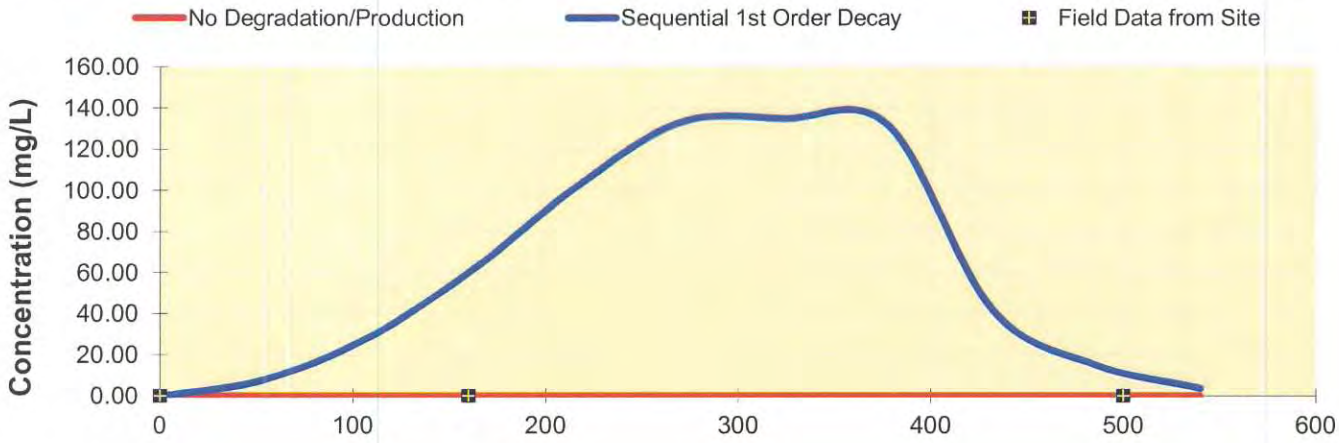
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Nitrate	0	54	108	162	216	270	324	378	432	486	540
No Degradation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0000	7.887	28.301	61.463	101.970	133.062	134.834	131.378	41.897	14.852	3.634

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050	0.050	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

40.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Hutchinson Island
EW-1 - River
Run Name

Data Input Instructions:

115 ← 1. Enter value directly....or
↑ or → 2. Calculate by filling in gray
0.02 cells. Press Enter, then (C)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CONSTITUENT: Ammonia ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	62.1	(ft/yr)
or			
Hydraulic Conductivity	K	3.0E-03	(cm/sec)
Hydraulic Gradient	i	0.005	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	10	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
Ammonia	14	(L/kg)	7.00	(-)
Nitrite	24	(L/kg)	1.16	(-)
Nitrate	0	(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
		(L/kg)	1.00	(-)
Common R (used in model)* =			**7.00**	

4. BIOTRANSFORMATION

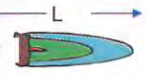
-1st Order Decay Coefficient*

	λ (1/yr)	half-life (yrs)	Yield
Zone 1			
NH3 → Nitrite	0.385	1.80	0.79
Nitrite → Nitrate	0.231	3.00	0.74
→	0.000		0.64
→	0.000		0.45
Zone 2	λ (1/yr)	half-life (yrs)	
→	0.000		
→	0.000		
→	0.000		
→	0.000		

λ HELP

5. GENERAL

Simulation Time*	70	(yr)
Modeled Area Width*	300	(ft)
Modeled Area Length*	540	(ft)
Zone 1 Length*	540	(ft)
Zone 2 Length*	0	(ft)



Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Decaying Single Planar

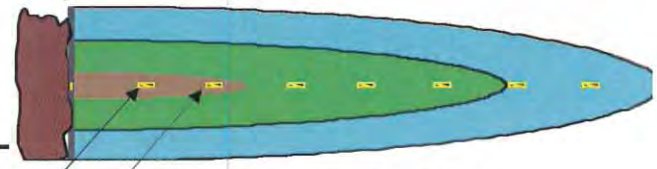
Source Options

Source Thickness in Sat. Zone* 10 (ft)

Y1
Width* (ft) 300

Conc. (mg/L)*	C1	k_s* (1/yr)
Ammonia	1100.0	0.035
Nitrite		0.035
Nitrate		0.035
		0.035
		0.035

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

Ammonia Conc. (mg/L)	270.0	7.9	1.1
Nitrite Conc. (mg/L)	.05	.0.73	.05
Nitrate Conc. (mg/L)	.05	.05	.05
Distance from Source (ft)	0	160	500
Date Data Collected	2015	2015	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore | RESET | SEE OUTPUT | Paste

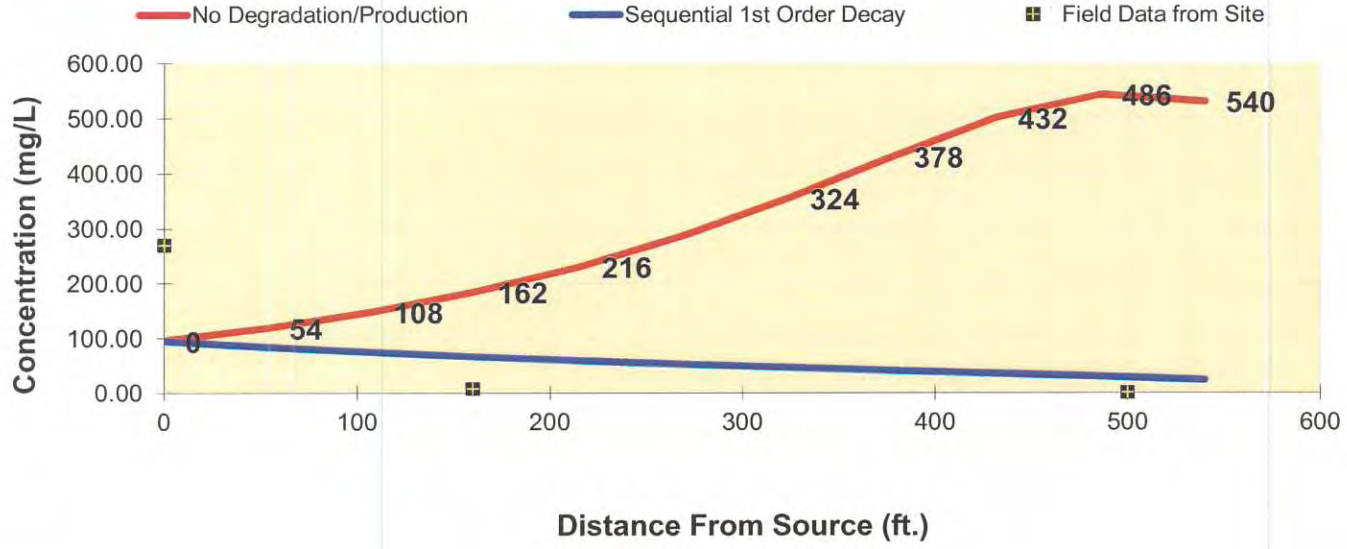
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Ammonia	0	54	108	162	216	270	324	378	432	486	540
No Degradation	94.923	118.549	148.056	184.899	230.842	287.783	355.253	430.648	500.980	542.861	530.192
Biotransformation	94.9229	84.261	74.796	66.394	58.935	52.308	46.356	40.908	35.635	30.119	24.053

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	270.000	7.900	1.100								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

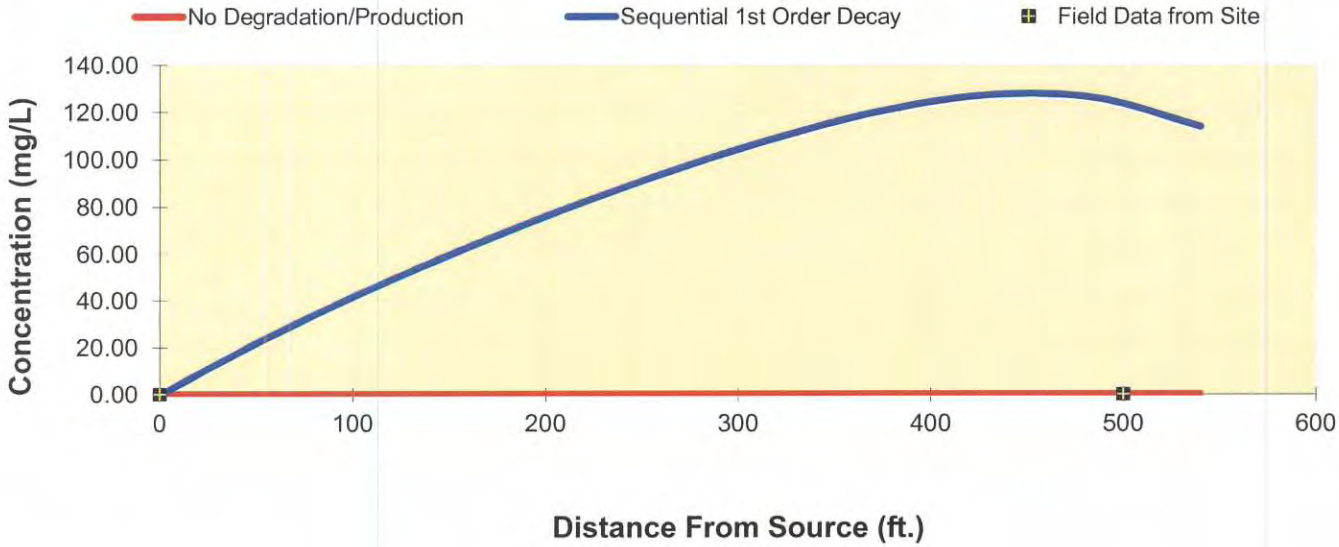
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Nitrite	0	54	108	162	216	270	324	378	432	486	540
No Degradation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0000	23.506	44.660	63.729	80.942	96.453	110.005	120.959	127.283	125.820	113.748

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050		0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

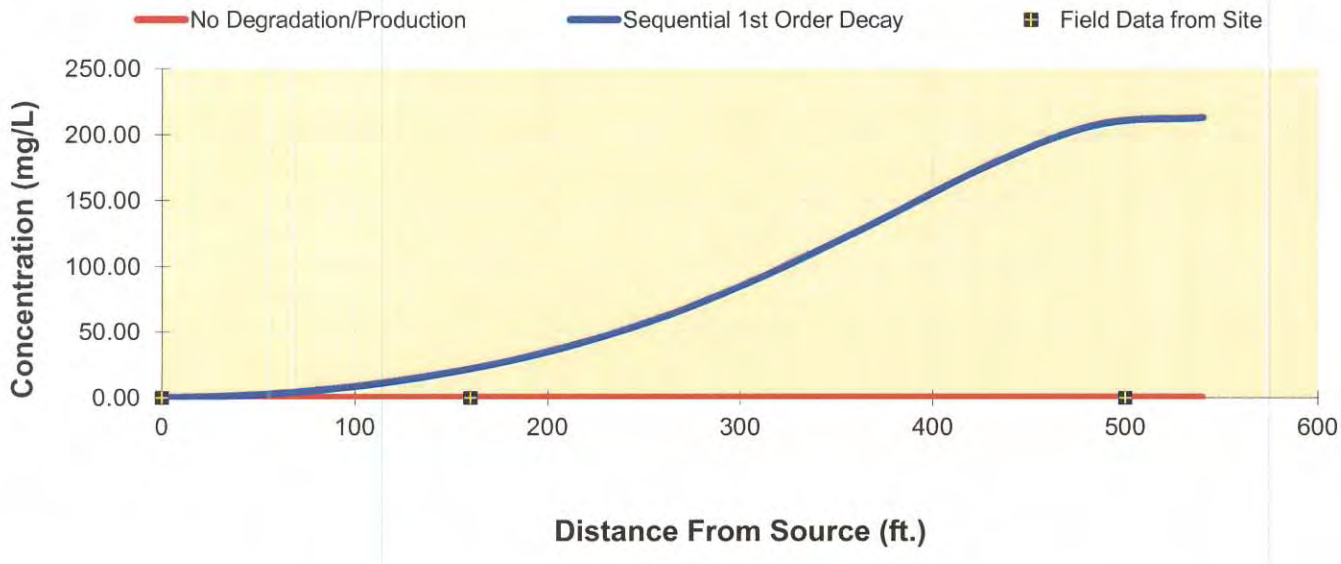
AMMONIA CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

Nitrate	0	54	108	162	216	270	324	378	432	486	540
No Degradation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Biotransformation	0.0000	2.766	10.011	22.472	41.083	66.909	100.818	139.268	178.925	207.788	212.820

Monitoring Well Locations (ft)

	TMW-1	PDMW-48	PDMW-49								
Field Data from Site	0.050	0.050	0.050								



See PCE

See TCE

See DCE

Prepare Animation

Time:

70.0 Years

Log ⟺ Linear

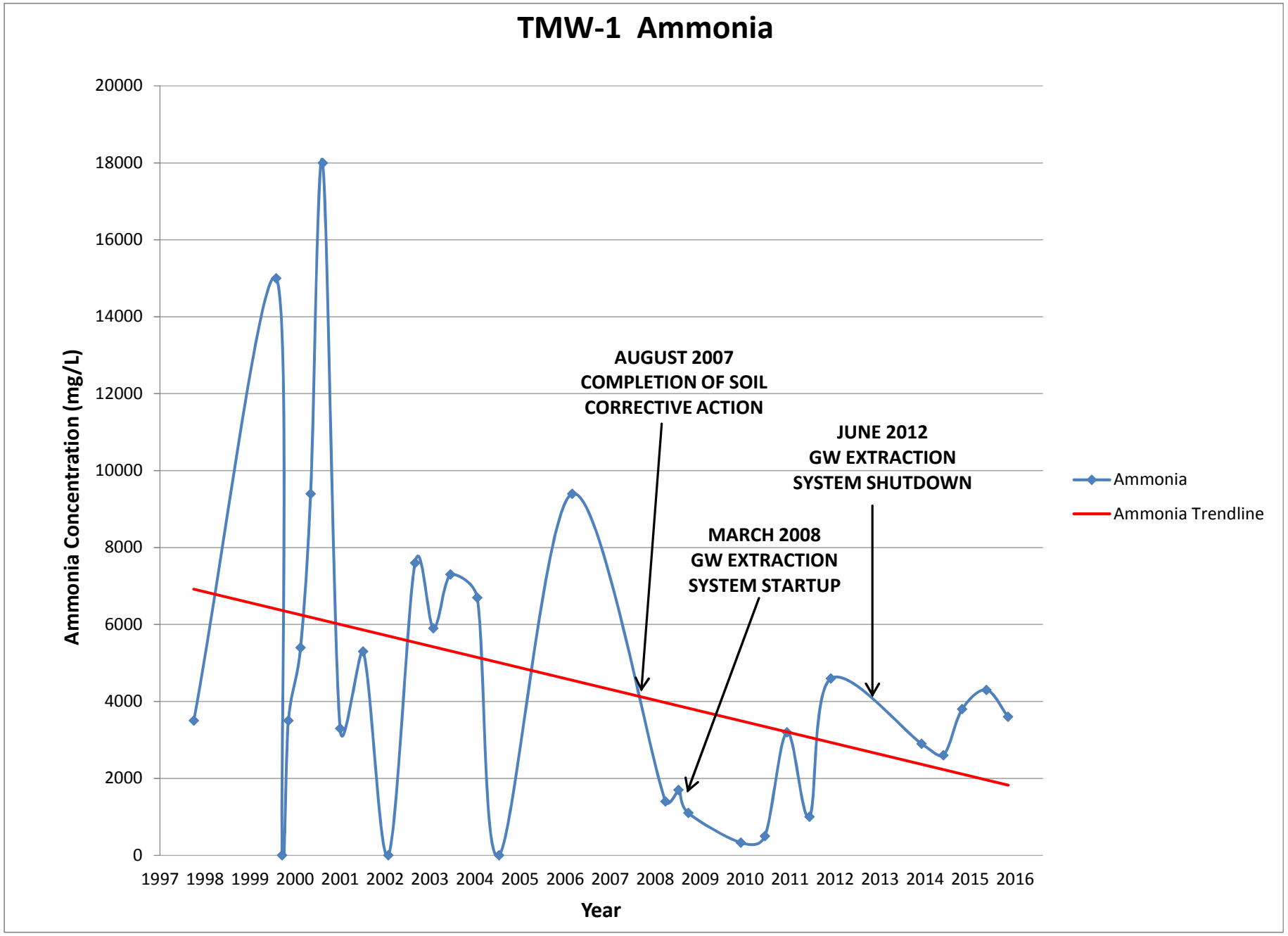
Return to Input

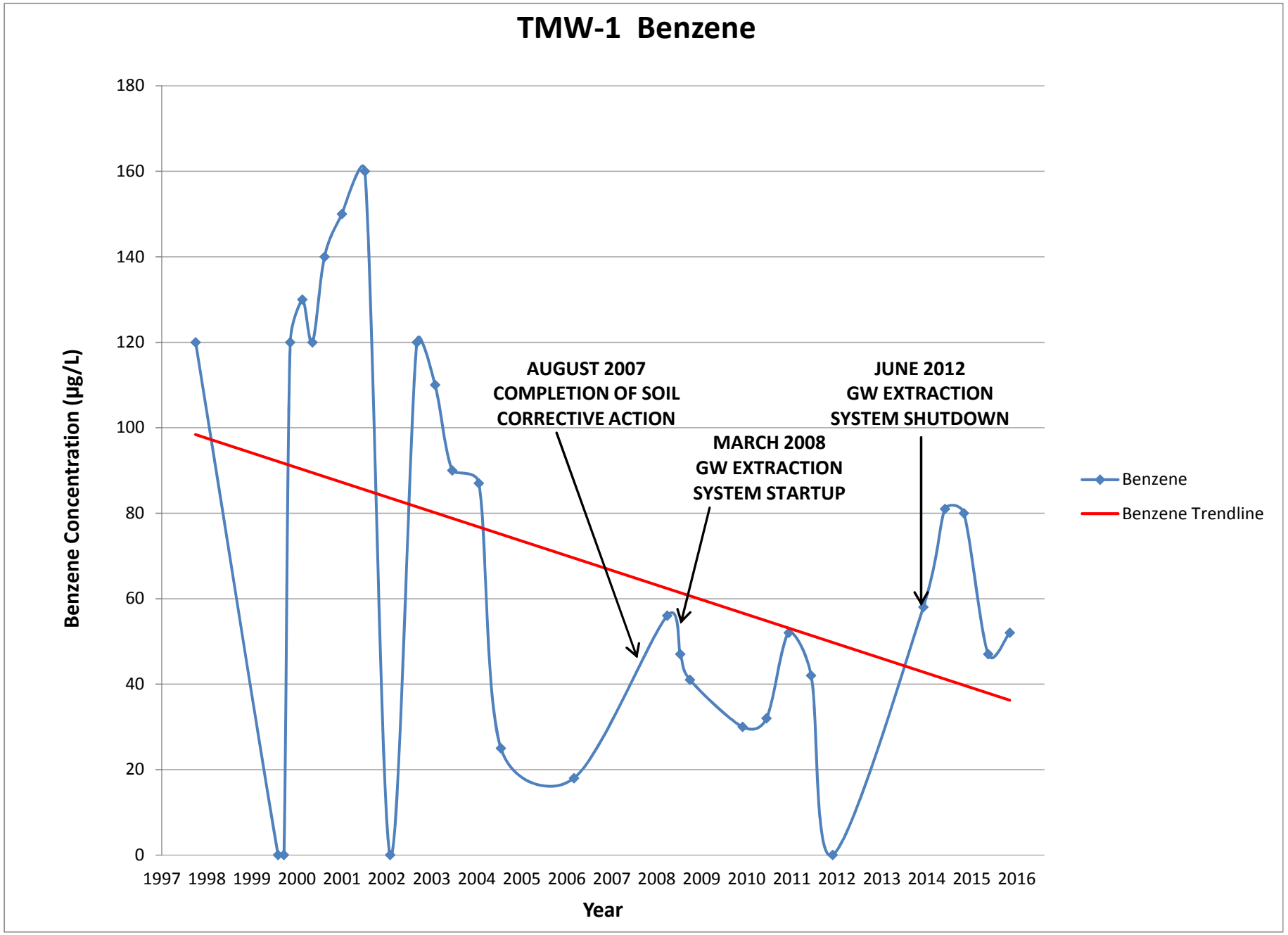
To All

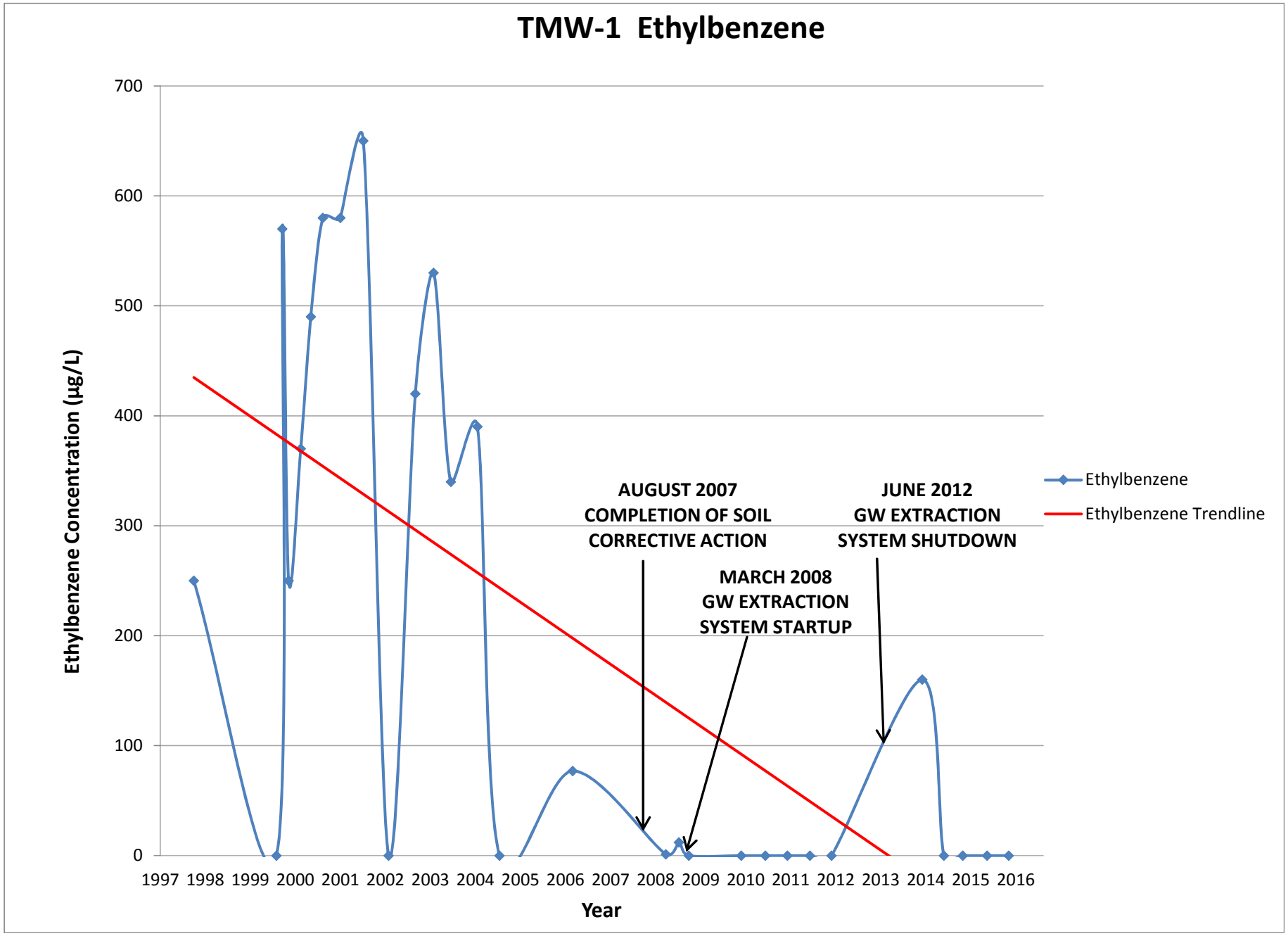
To Array

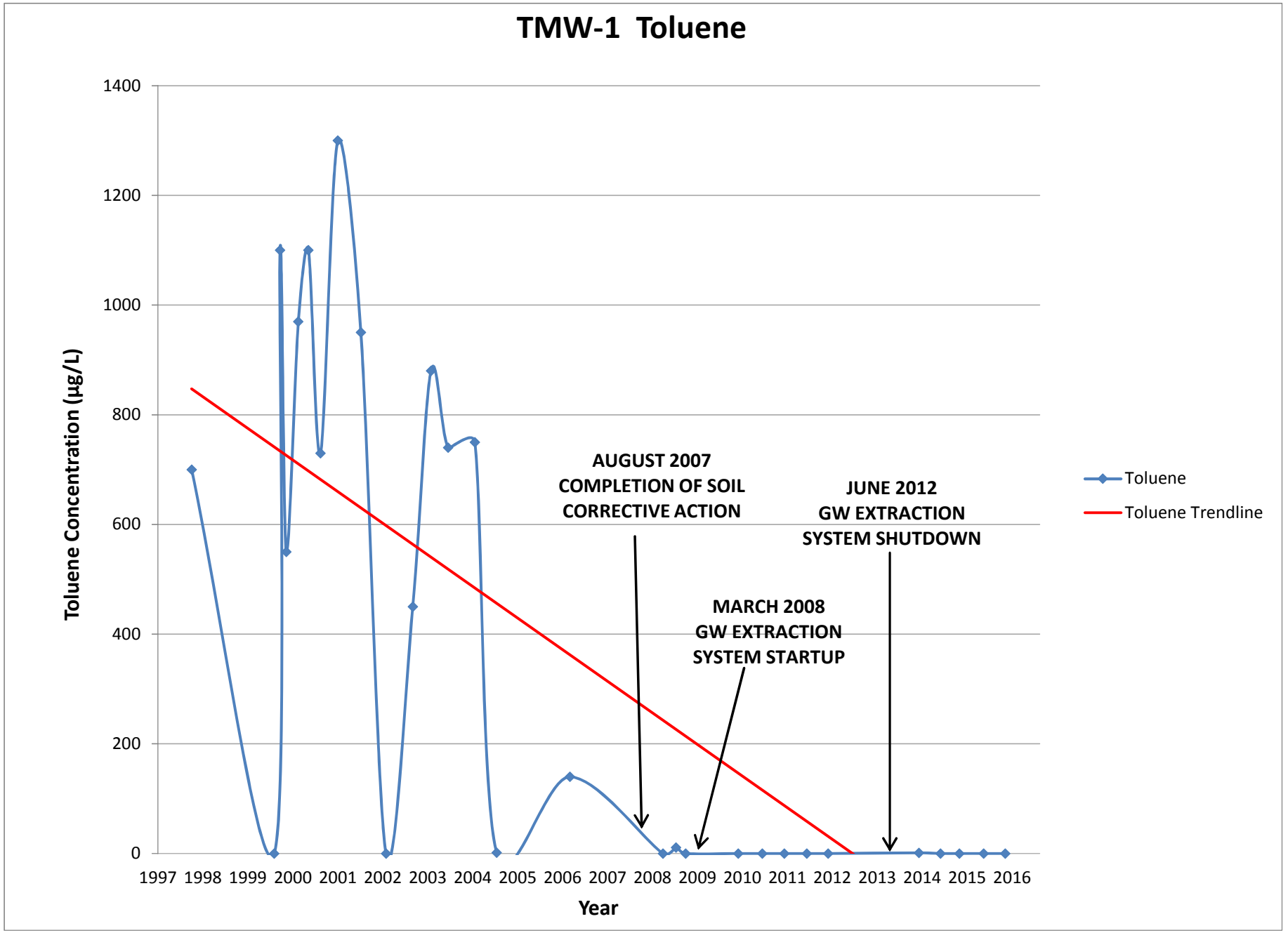
APPENDIX D

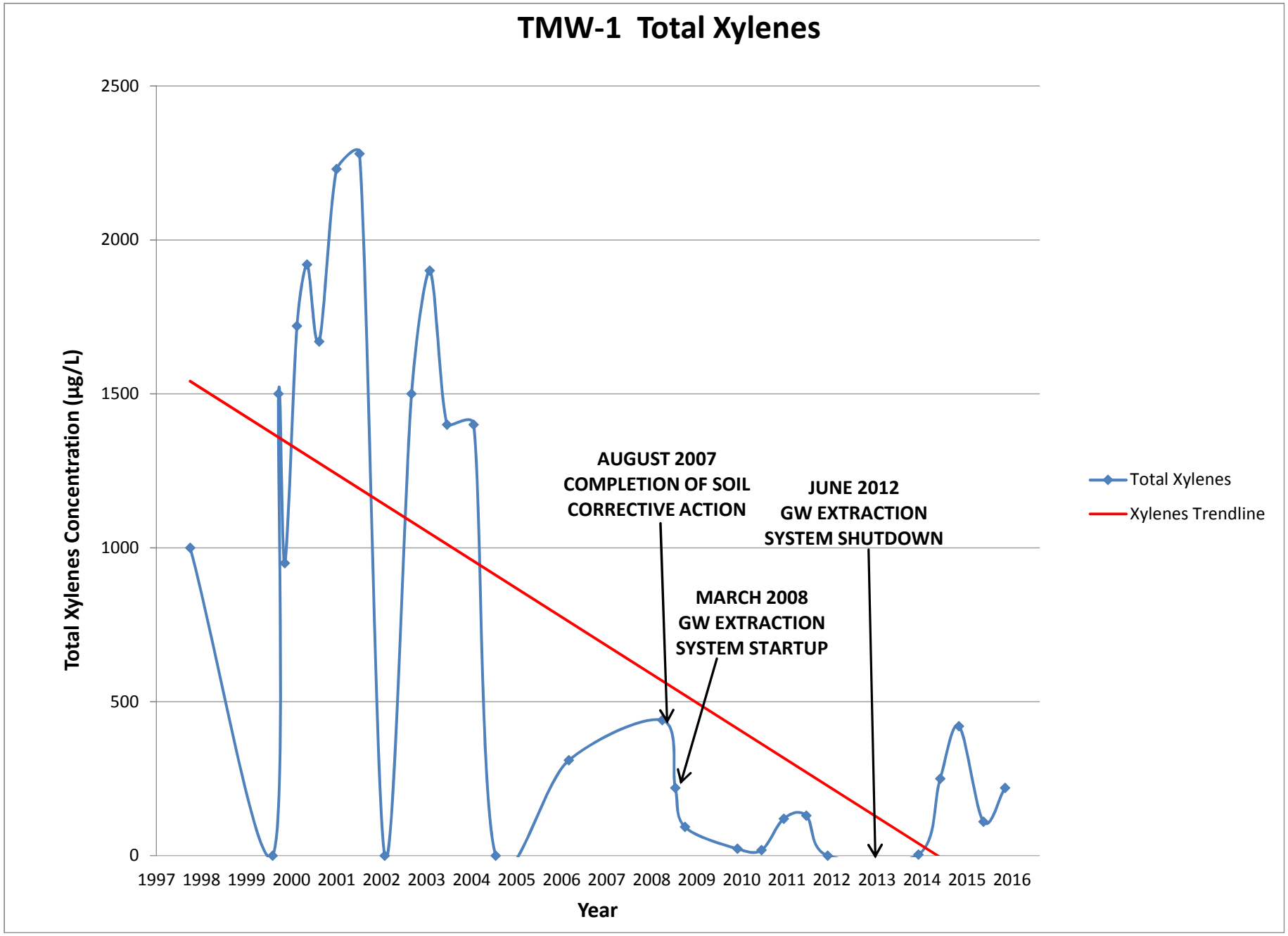
WATER QUALITY VS. TIME TREND GRAPHS

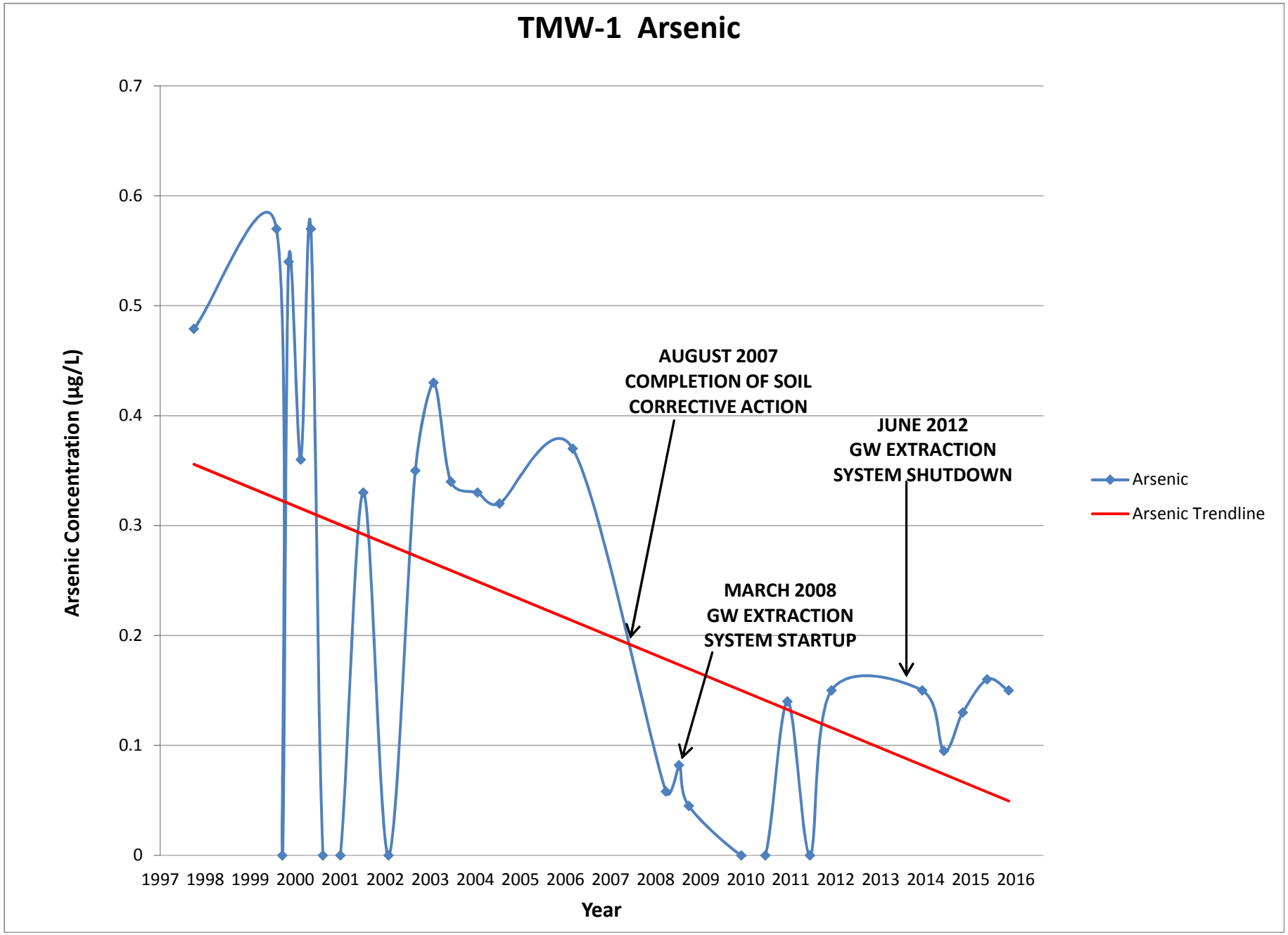

TMW-1 Ammonia
Ammonia Concentration (mg/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Ammonia
Ammonia Trendline

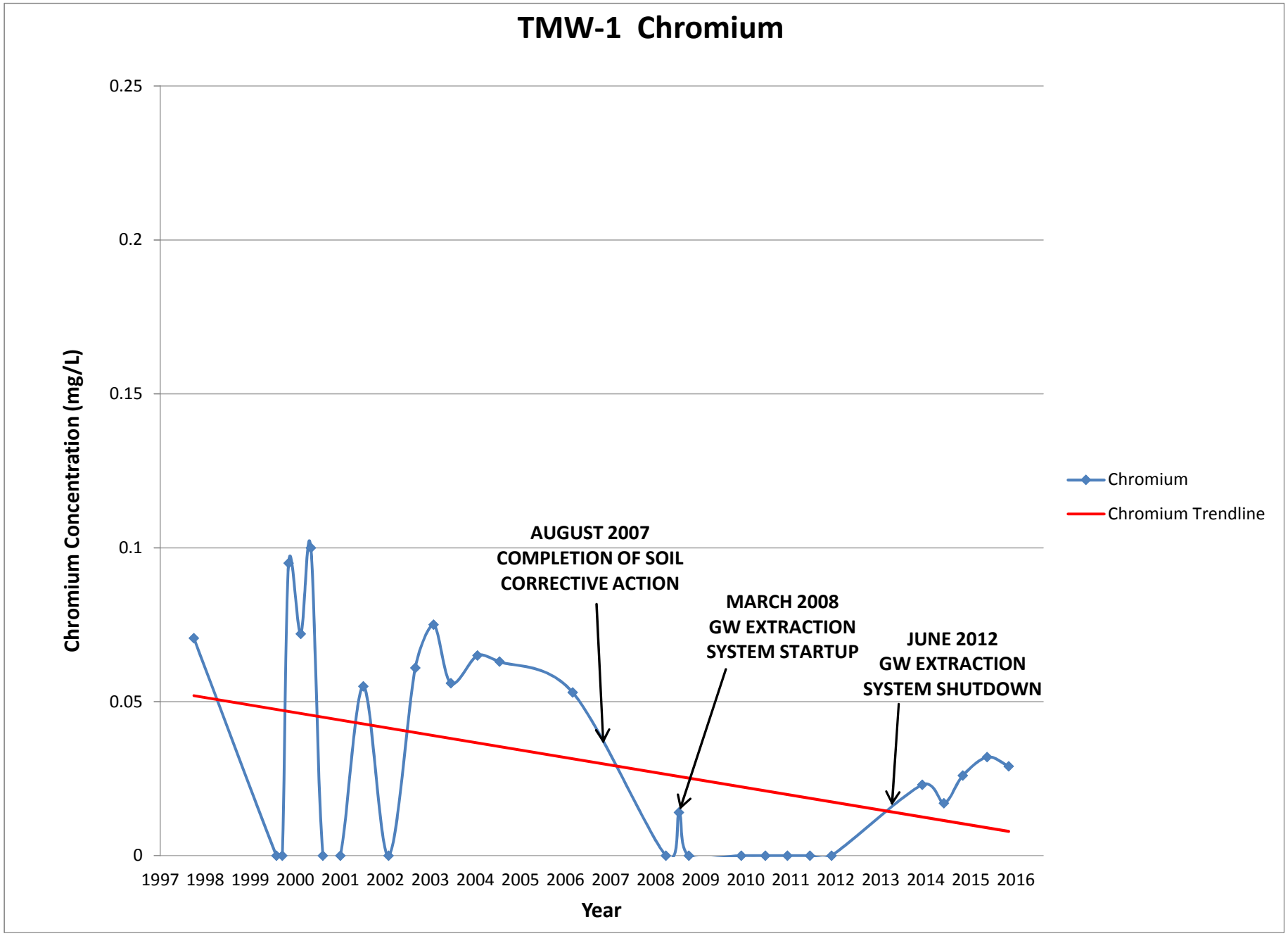

TMW-1 Benzene
Benzene Concentration (µg/L)
180
160
140
120
100
80
60
40
20
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Benzene
Benzene Trendline

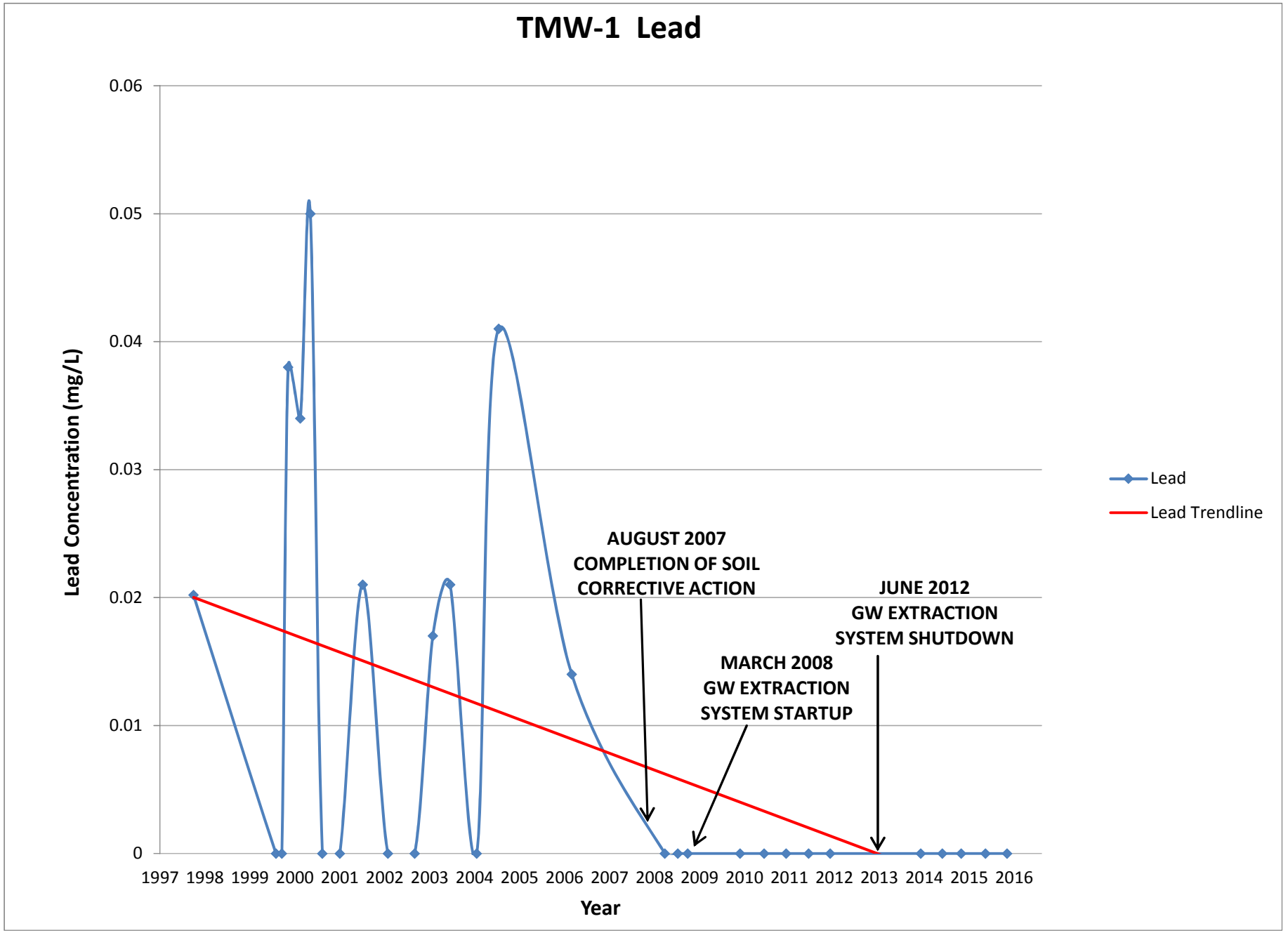

TMW-1 Ethylbenzene
Ethylbenzene Concentration (µg/L)
700
600
500
400
300
200
100
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ethylbenzene
Ethylbenzene Trendline

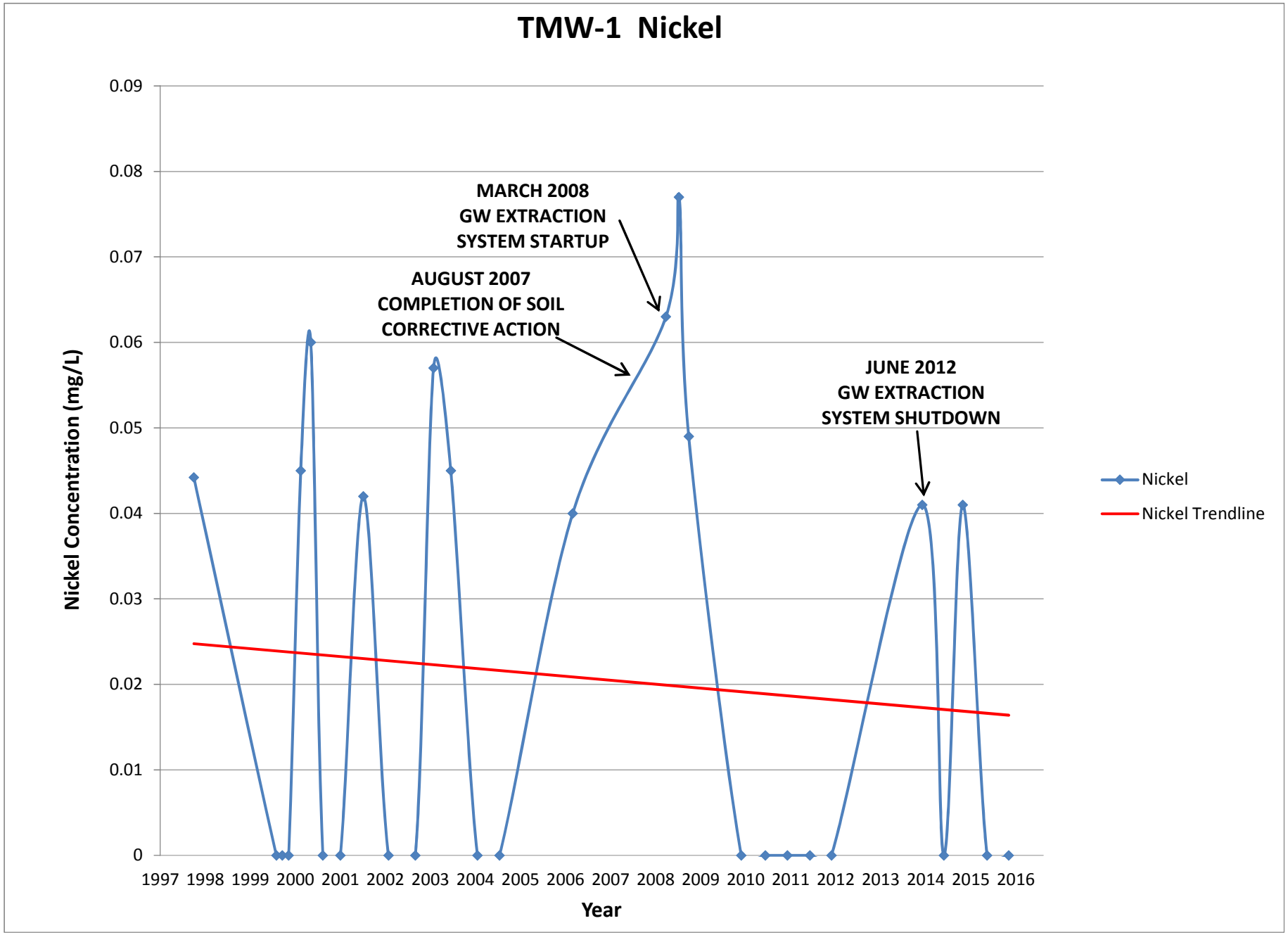

TMW-1 Toluene
Toluene Concentration (µg/L)
1400
1200
1000
800
600
400
200
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Toluene
Toluene Trendline

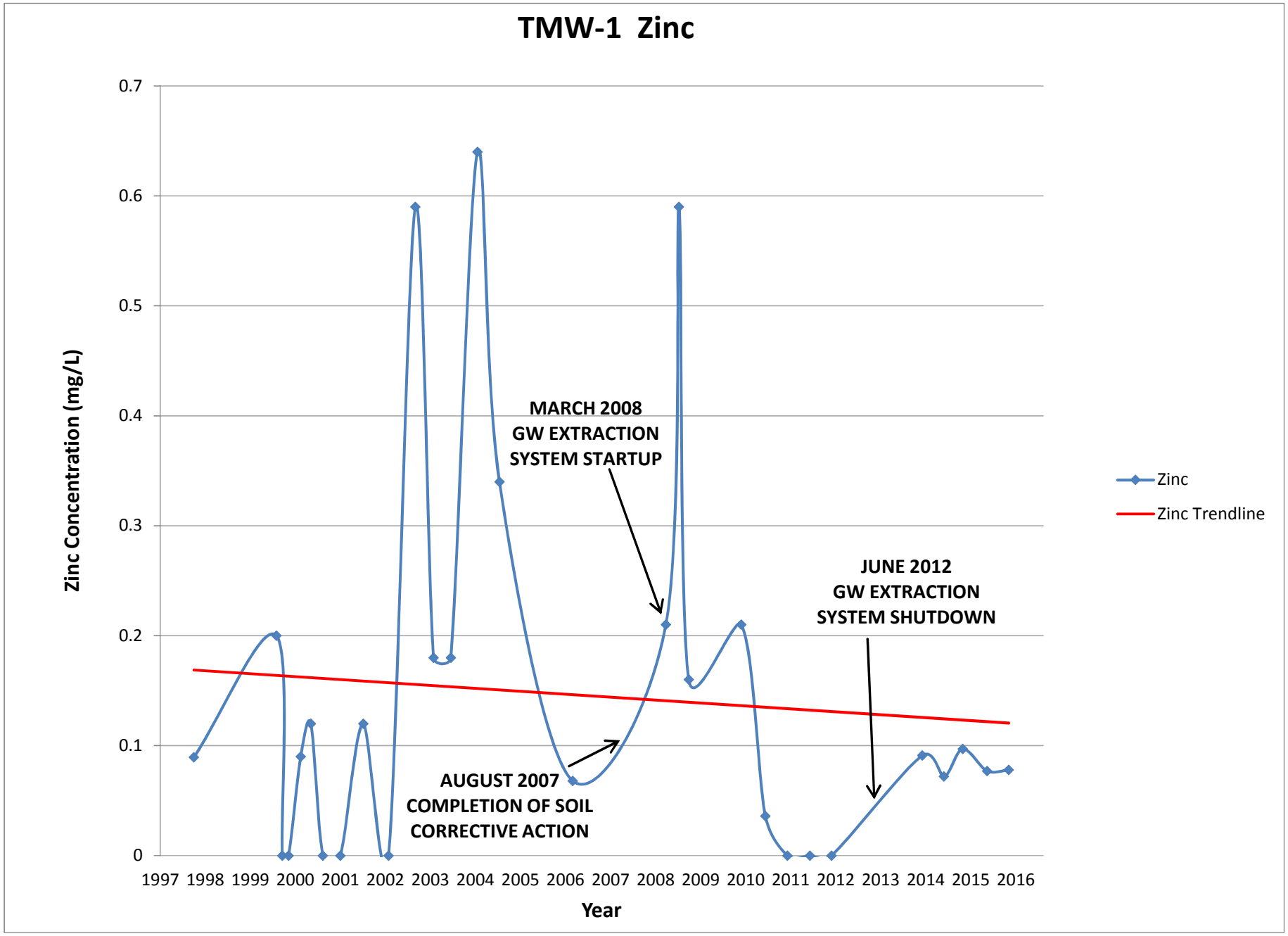

TMW-1 Total Xylenes
Total Xylenes Concentration (µg/L)
2500
2000
1500
1000
500
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Total Xylenes
Xylenes Trendline

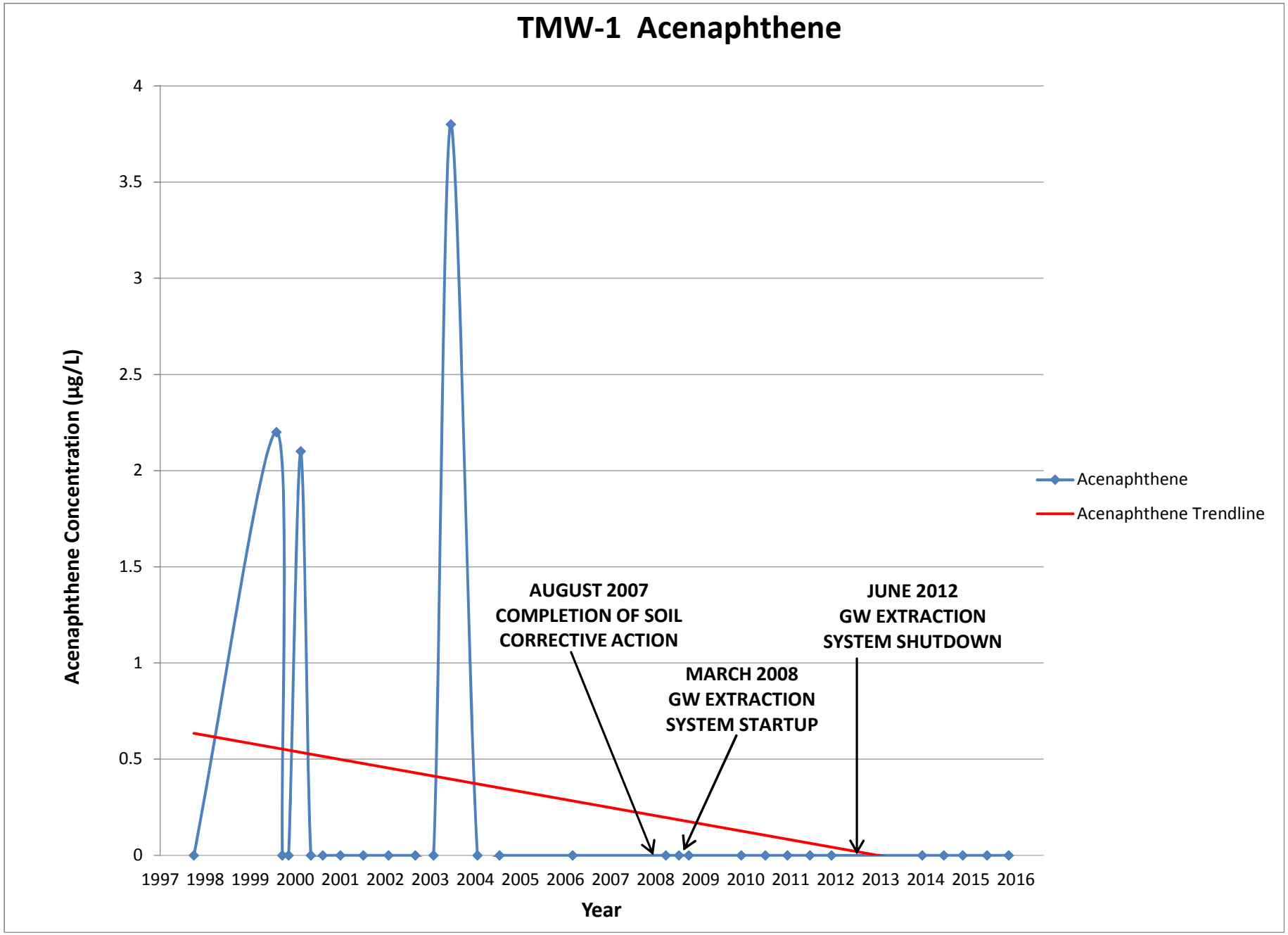

TMW-1 Arsenic
Arsenic Concentration (µg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Arsenic
Arsenic Trendline

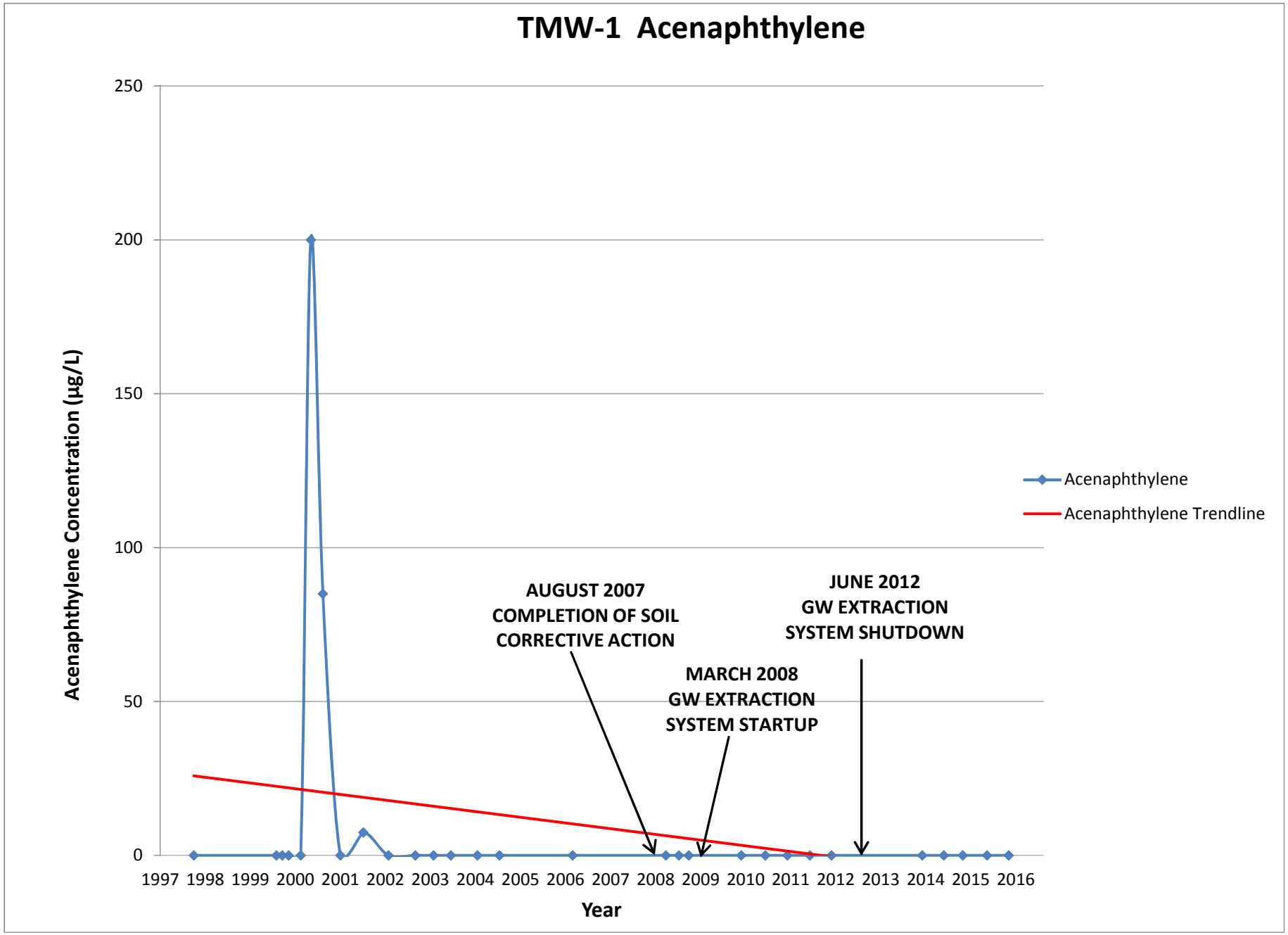

TMW-1 Chromium
Chromium Concentration (mg/L)
0.25
0.2
0.15
0.1
0.05
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Chromium
Chromium Trendline

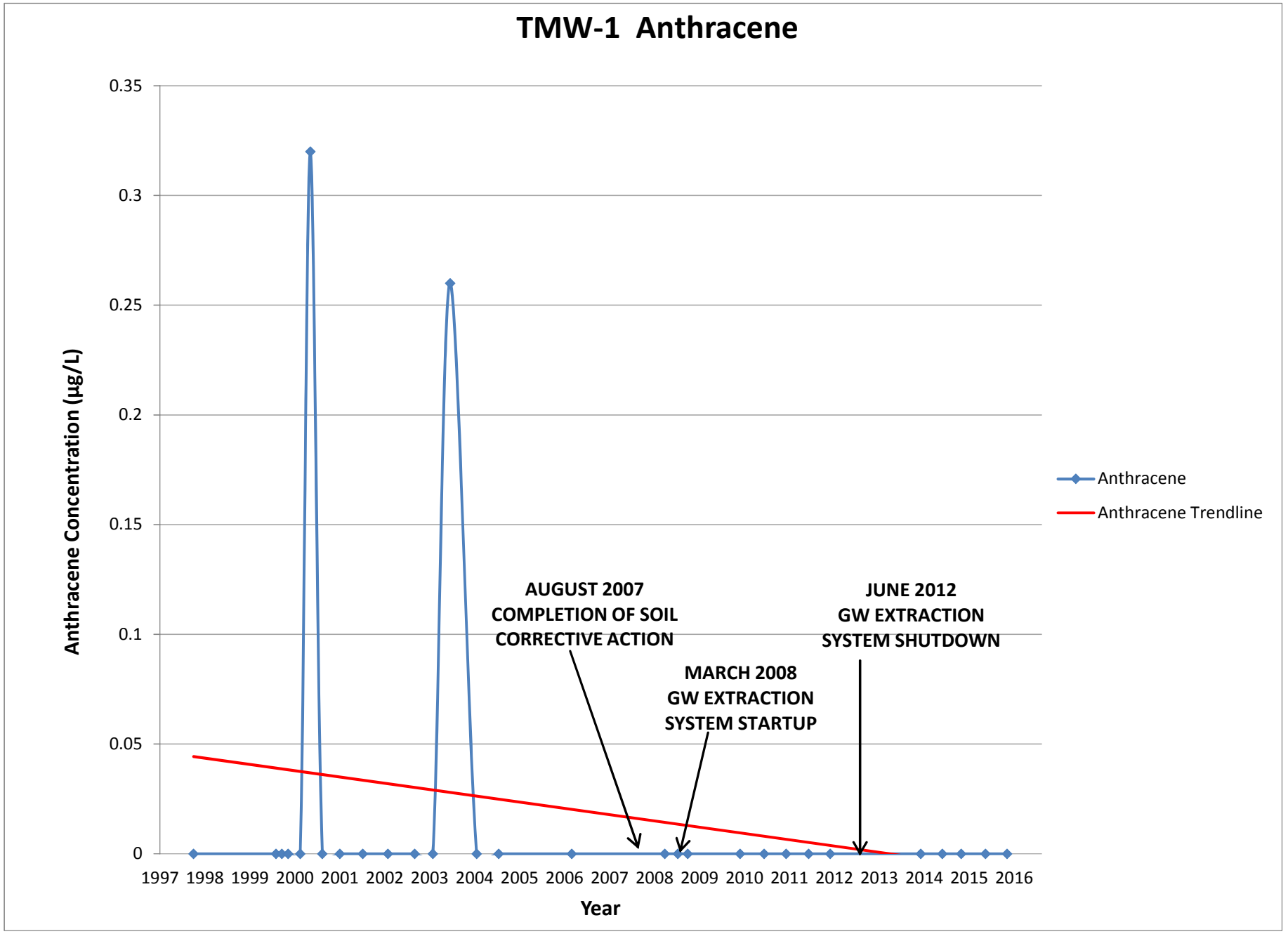

TMW-1 Lead
Lead Concentration (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Lead
Lead Trendline

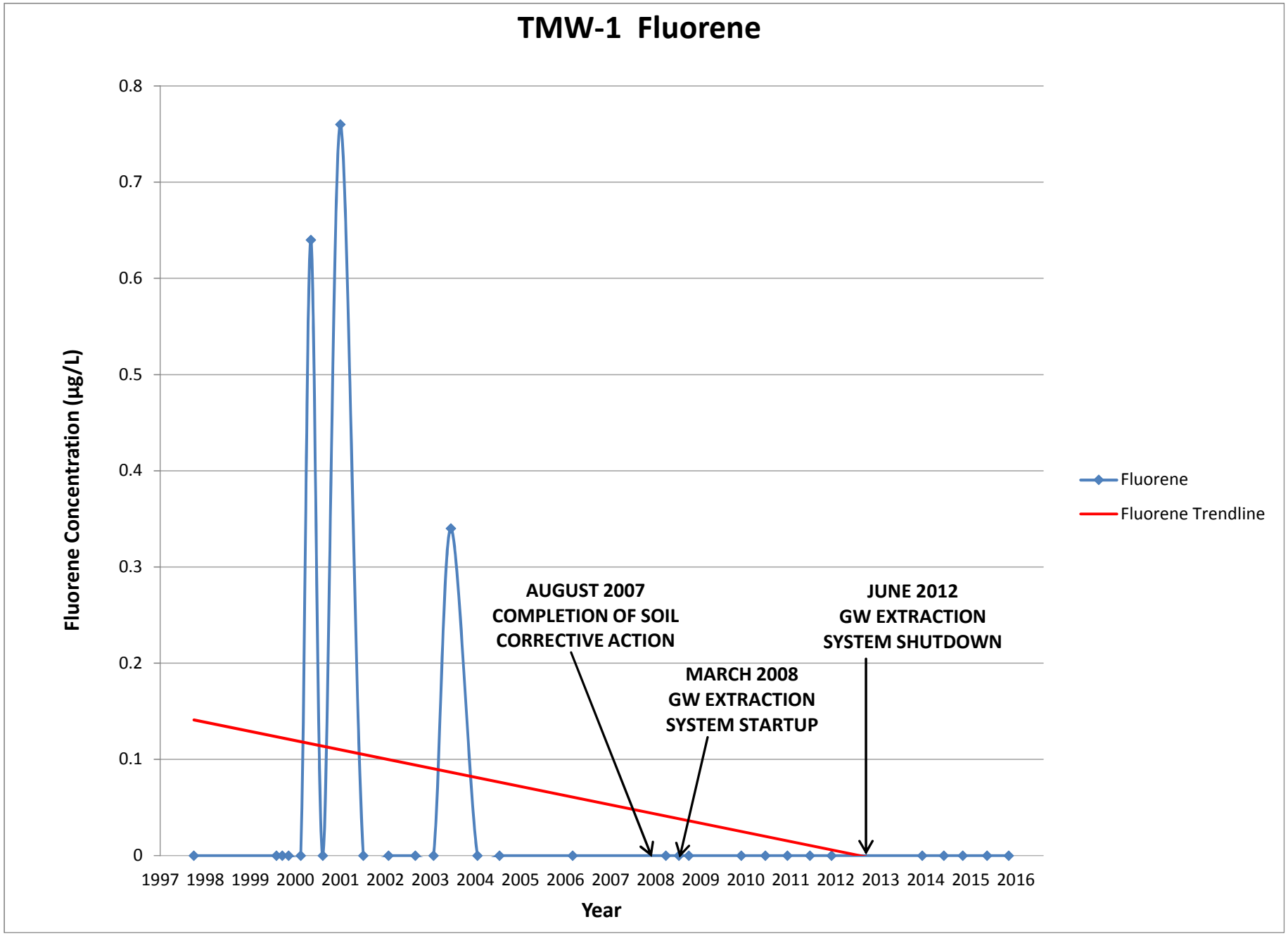

TMW-1 Nickel
Nickel Concentration (mg/L)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Nickel
Nickel Trendline

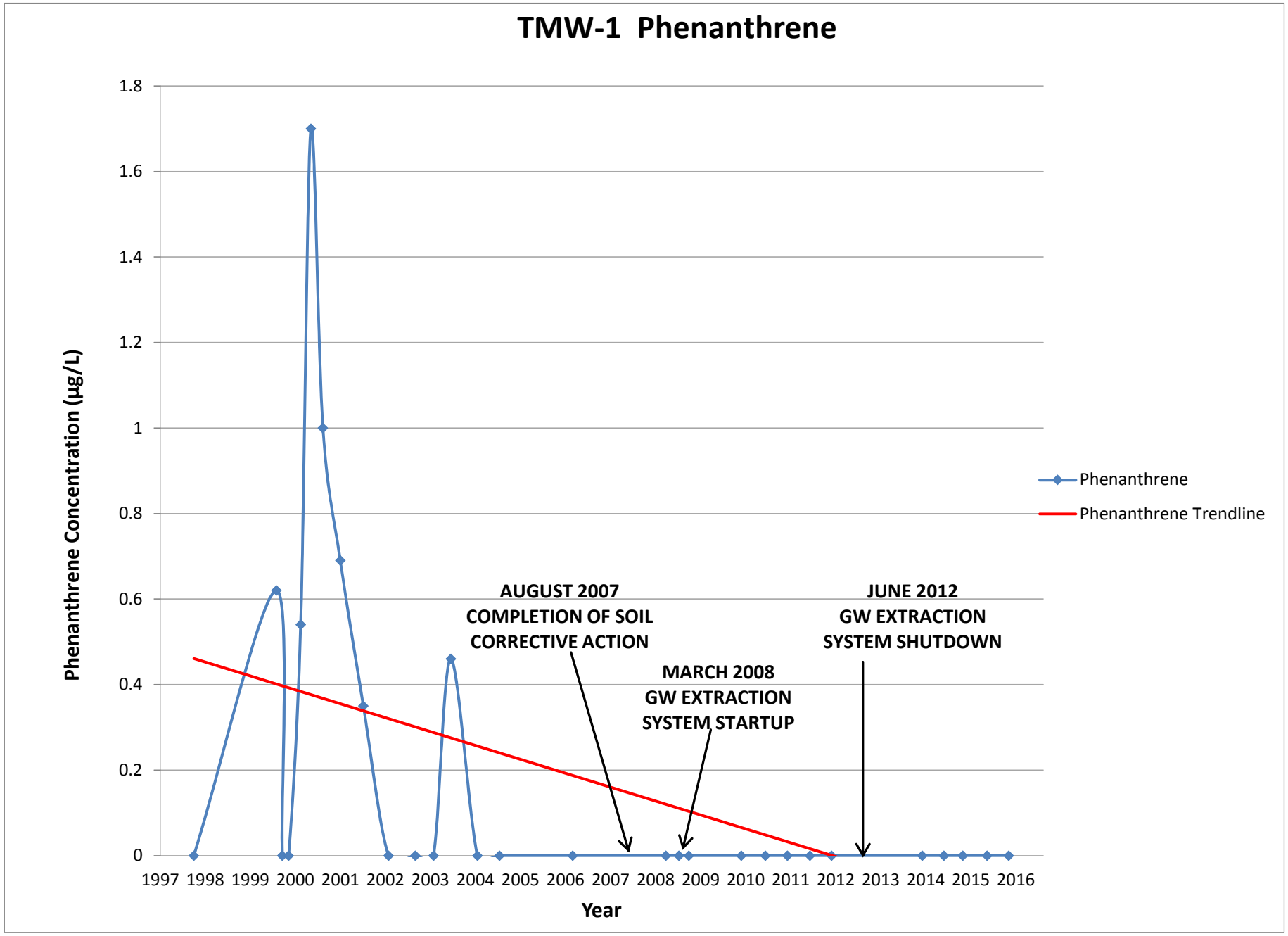

TMW-1 Zinc
Zinc Concentration (mg/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Zinc
Zinc Trendline

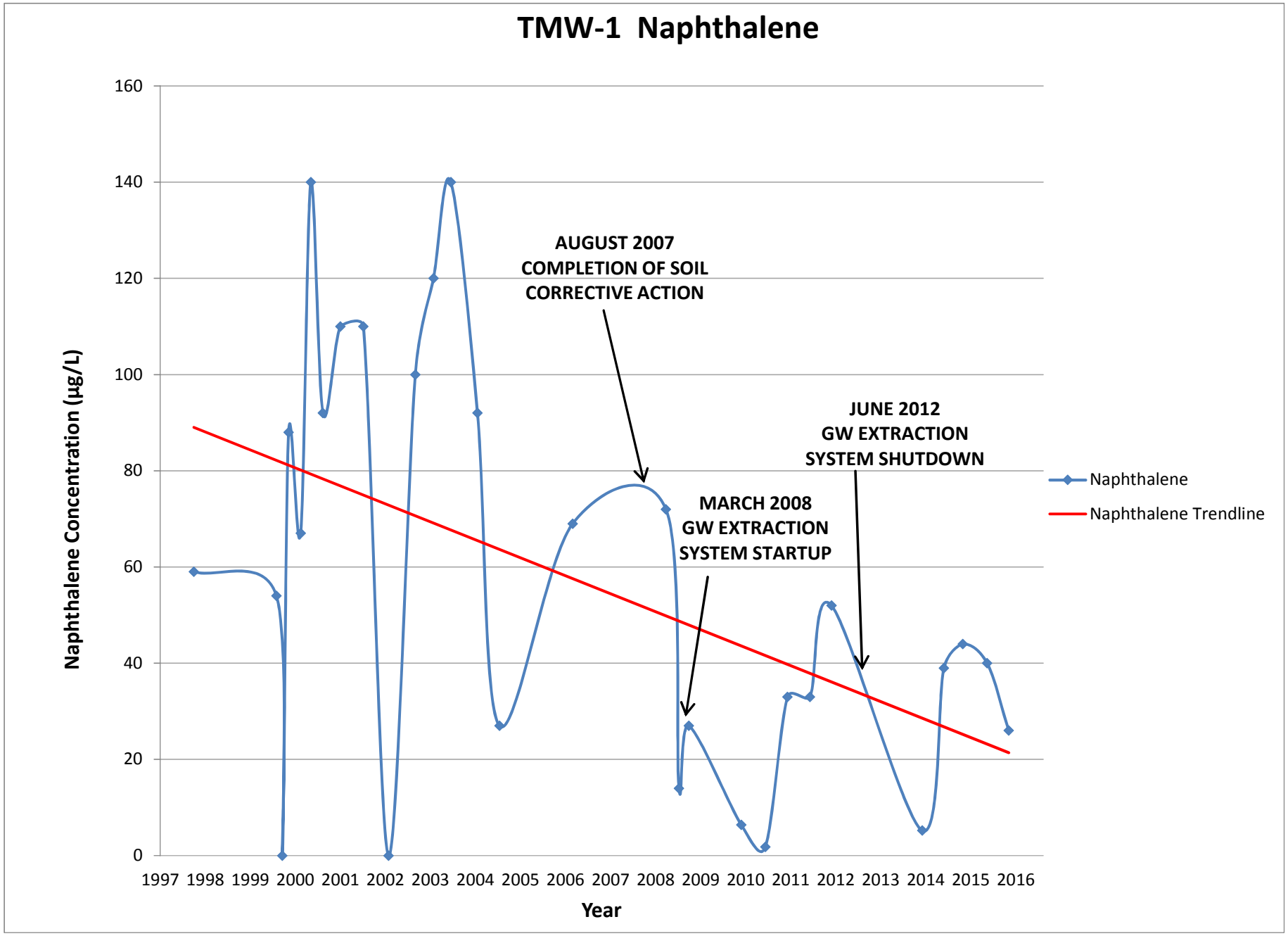

TMW-1 Acenaphthene
Acenaphthene Concentration (µg/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Acenaphthene
Acenaphthene Trendline

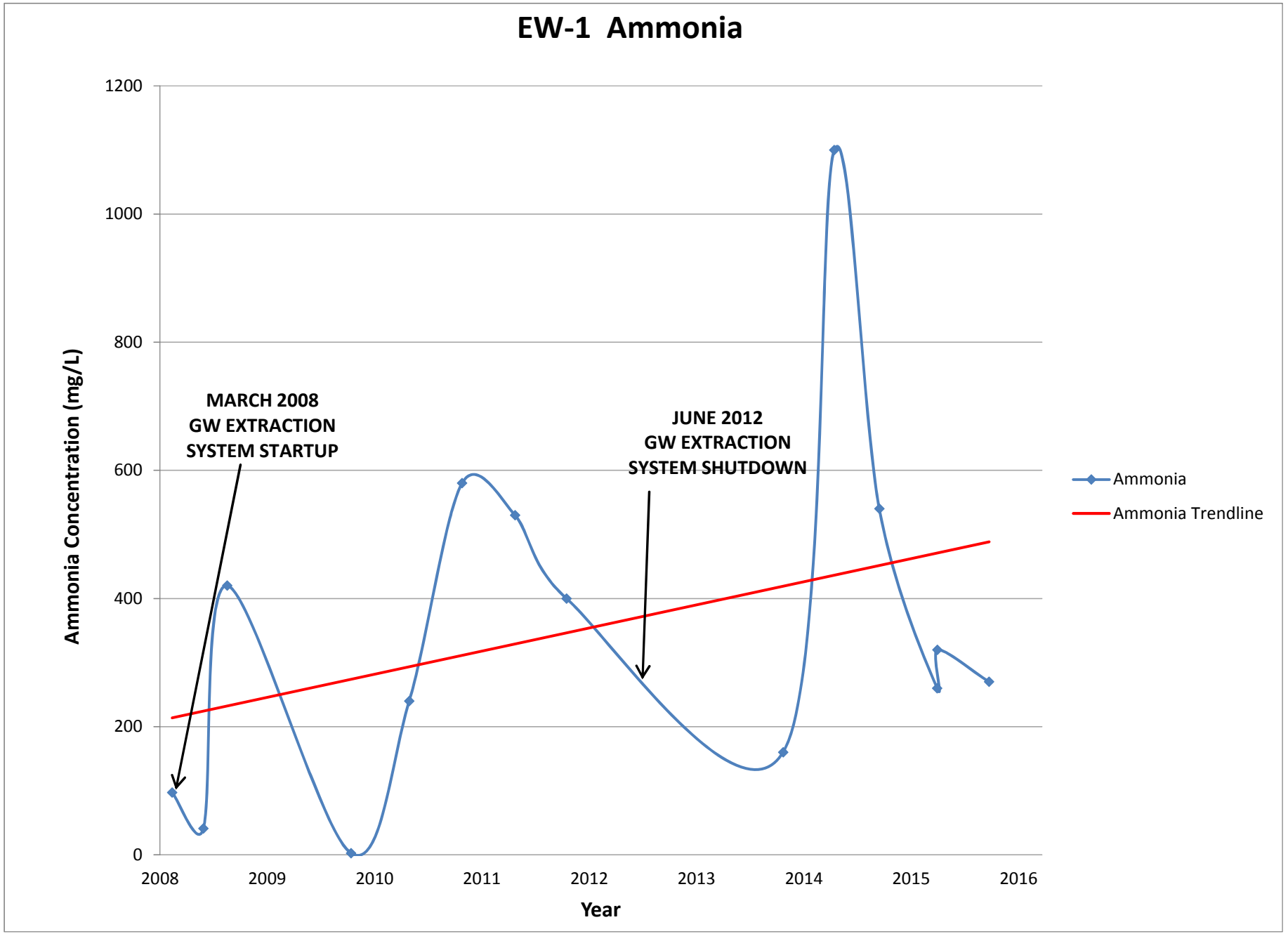

TMW-1 Acenaphthylene
Acenaphthylene Concentration (µg/L)
250
200
150
100
50
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Acenaphthylene
Acenaphthylene Trendline

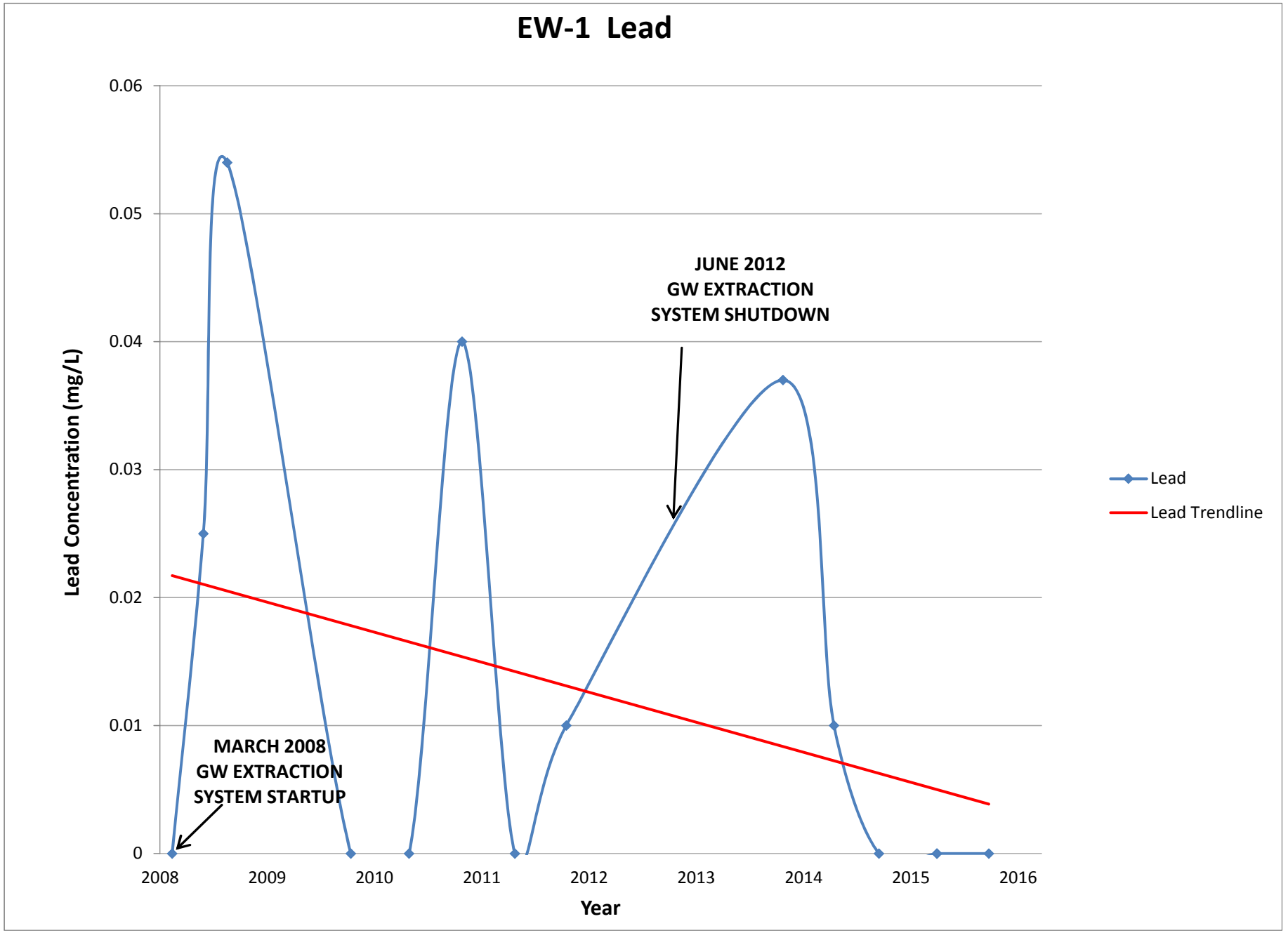

TMW-1 Anthracene
Anthracene Concentration (µg/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Anthracene
Anthracene Trendline

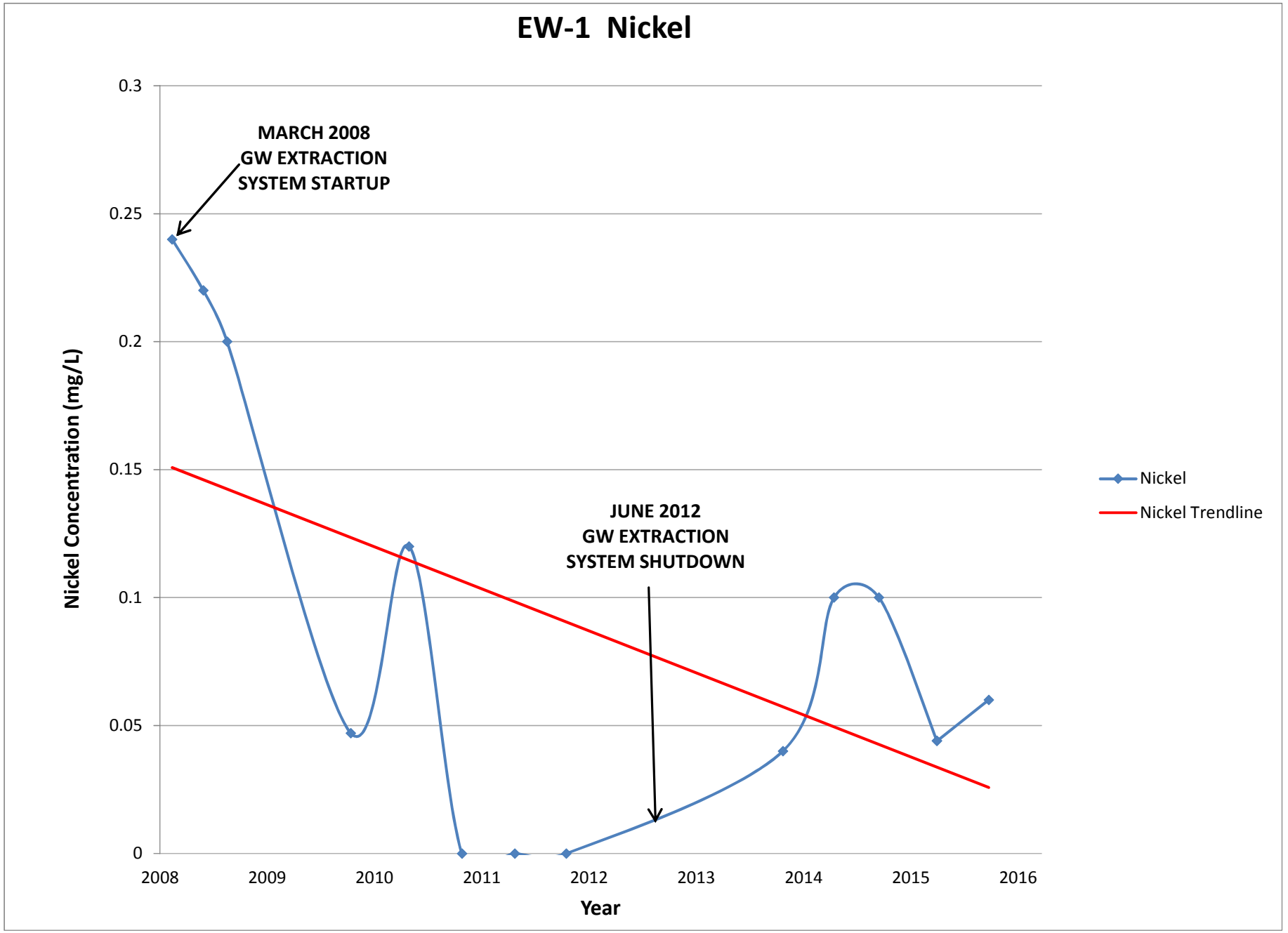

TMW-1 Fluorene
Fluorene Concentration (µg/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Fluorene
Fluorene Trendline

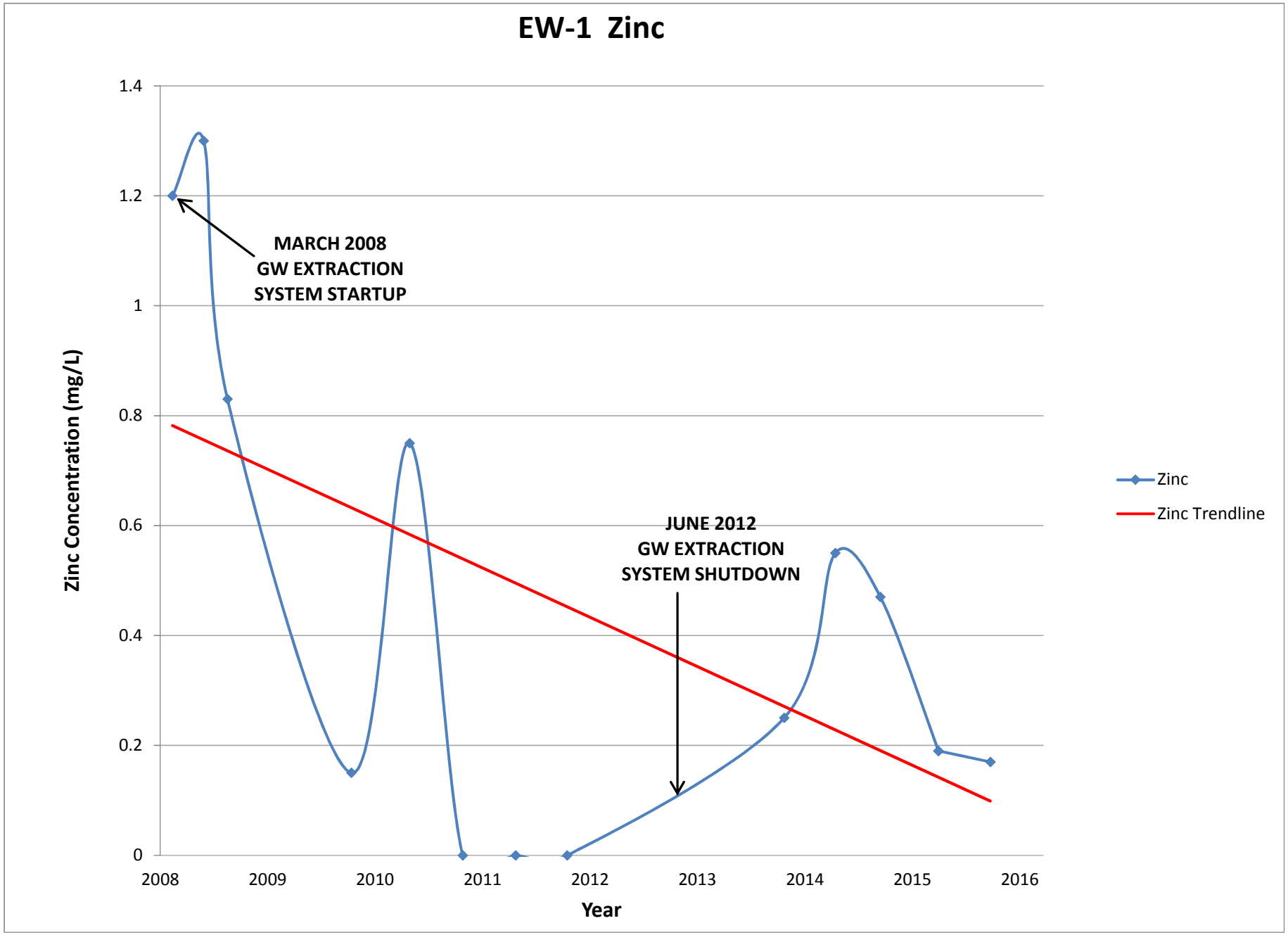

TMW-1 Phenanthrene
Phenanthrene Concentration (µg/L)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Phenanthrene
Phenanthrene Trendline

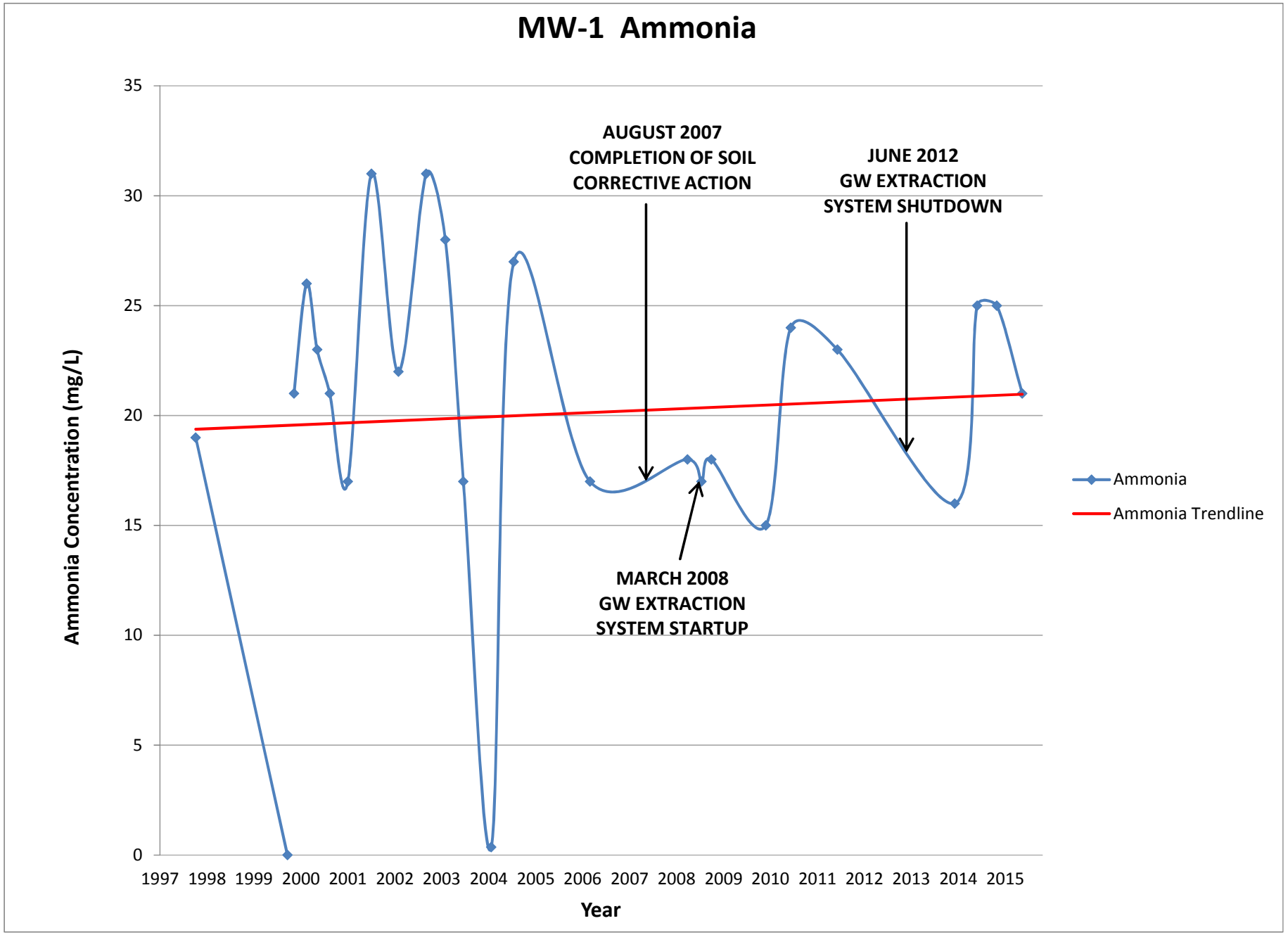

TMW-1 Naphthalene
Naphthalene Concentration (µg/L)
160
140
120
100
80
60
40
20
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Naphthalene
Naphthalene Trendline

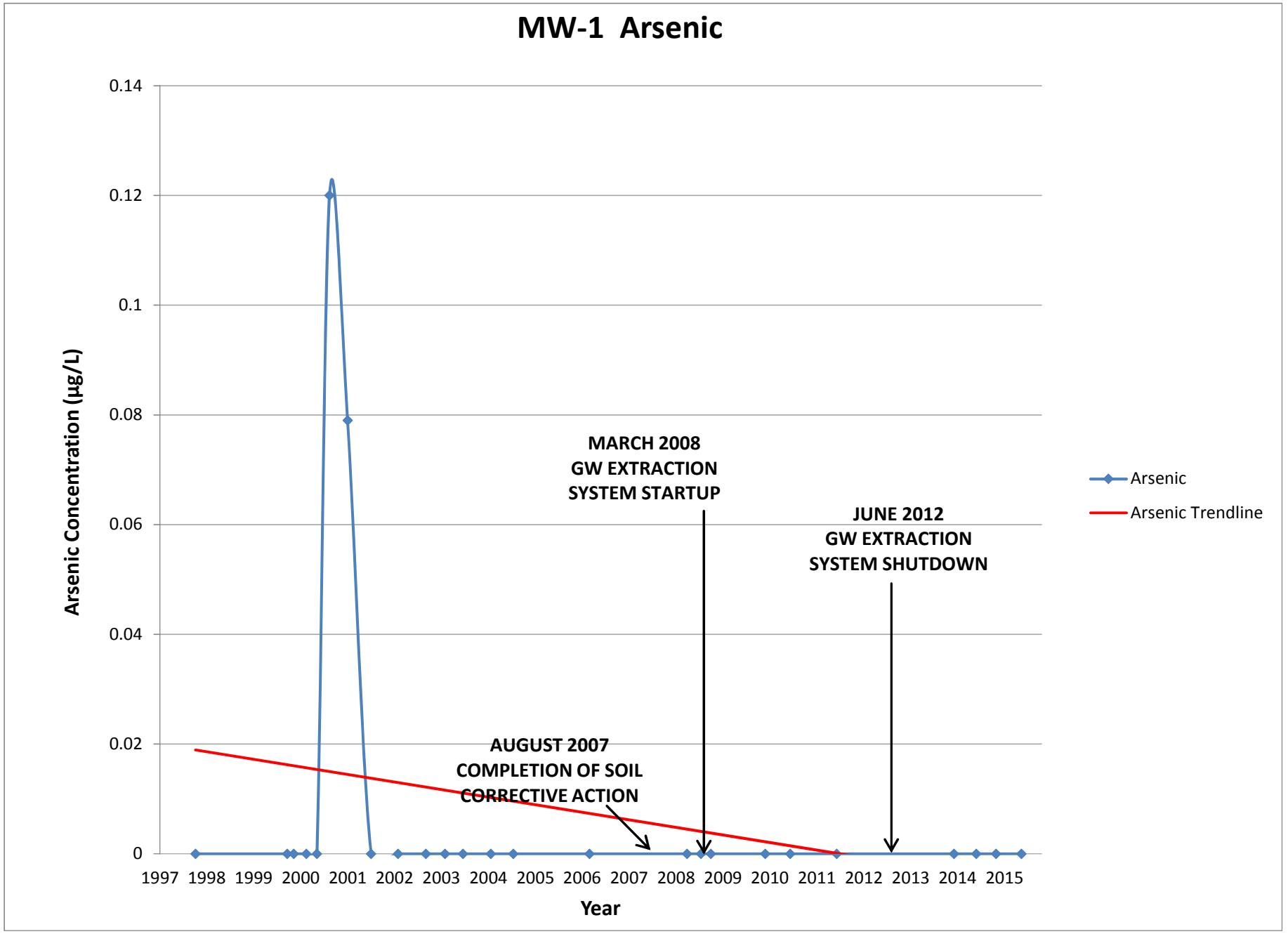

EW-1 Ammonia
Ammonia Concentration (mg/L)
1200
1000
800
600
400
200
0
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ammonia
Ammonia Trendline

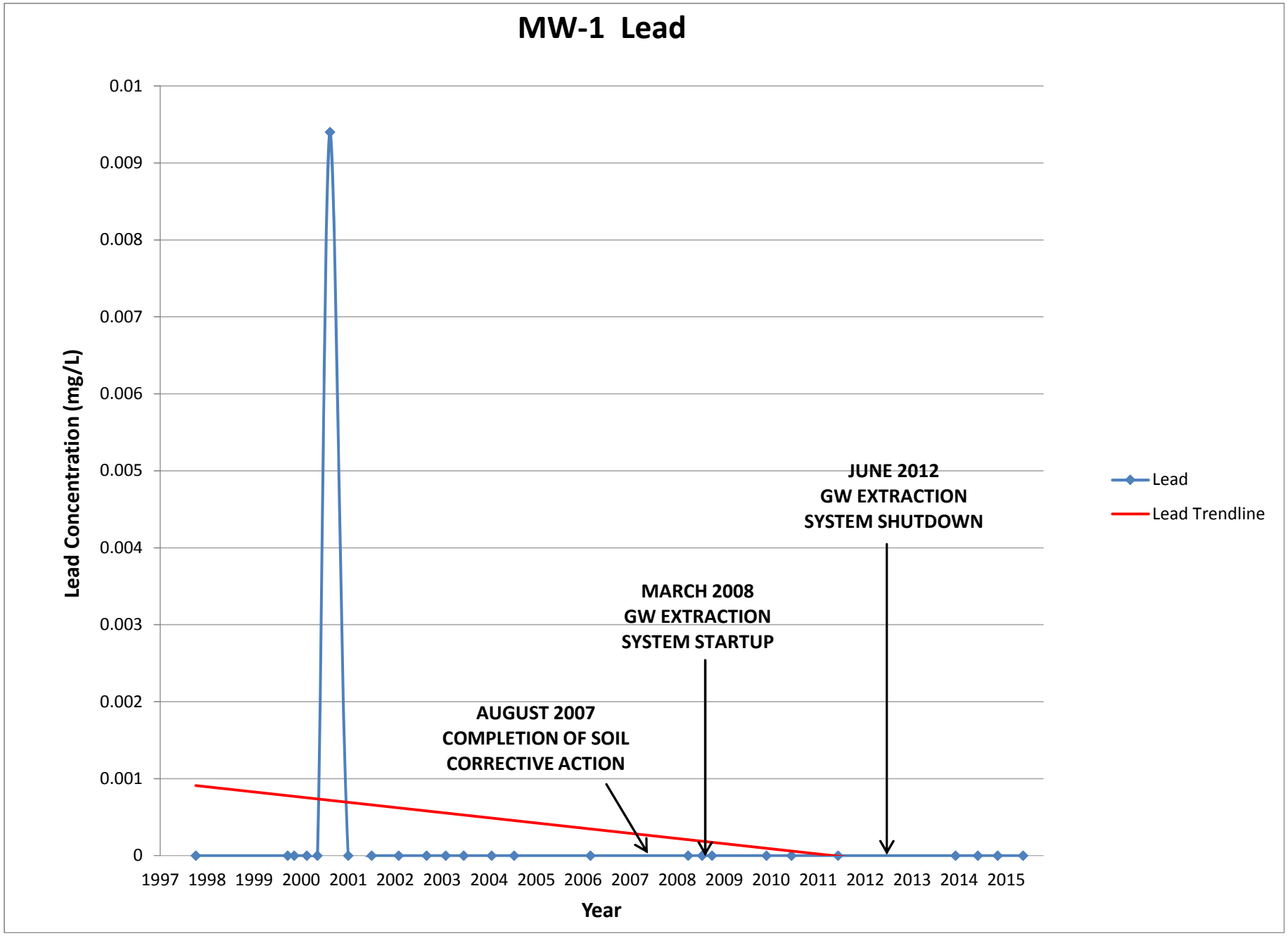

EW-1 Lead
Lead Concentration (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Lead
Lead Trendline

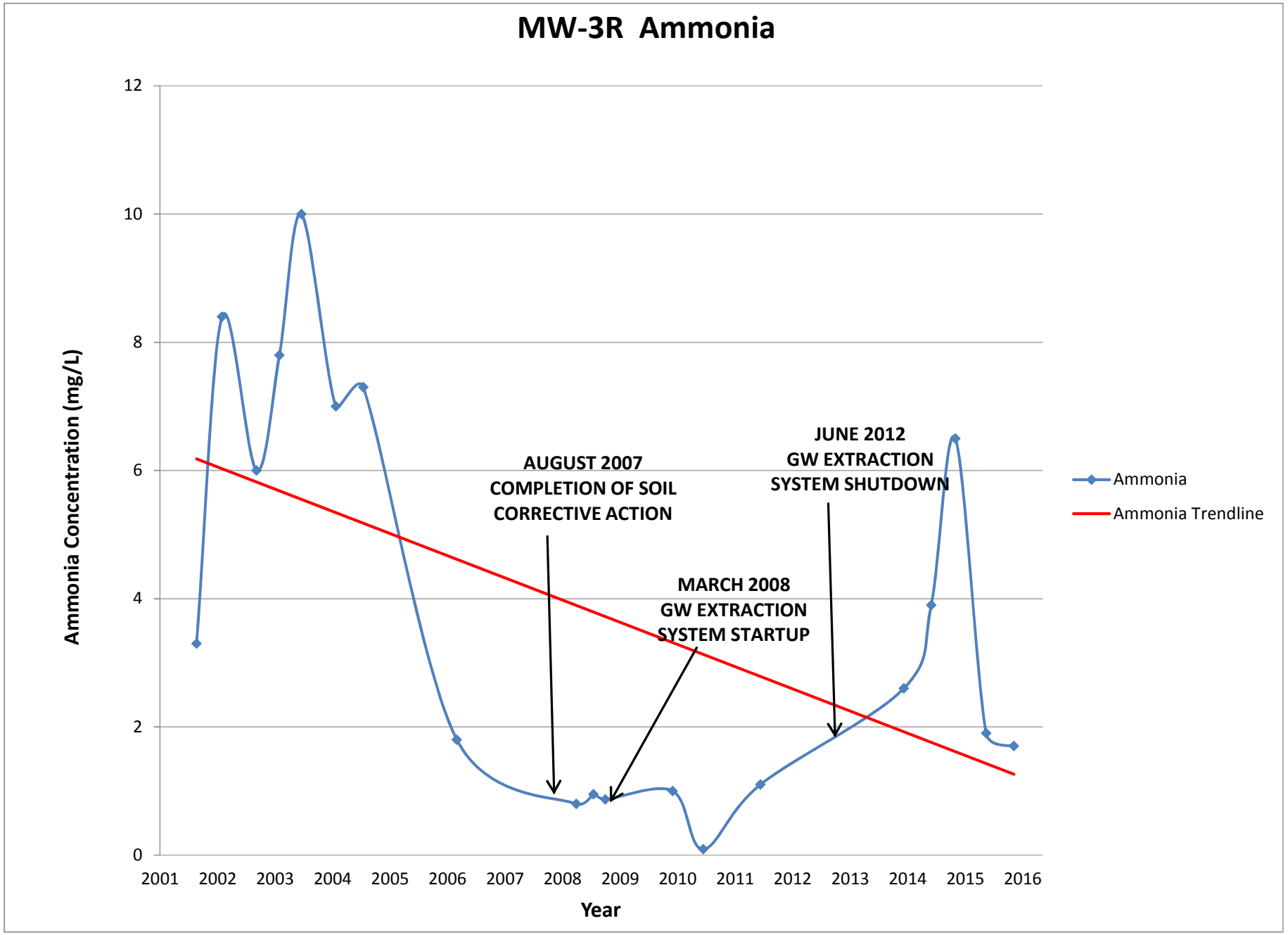

EW-1 Nickel
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Nickel Concentration (mg/L)
0.3
0.25
0.2
0.15
0.1
0.05
0
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
Nickel
Nickel Trendline

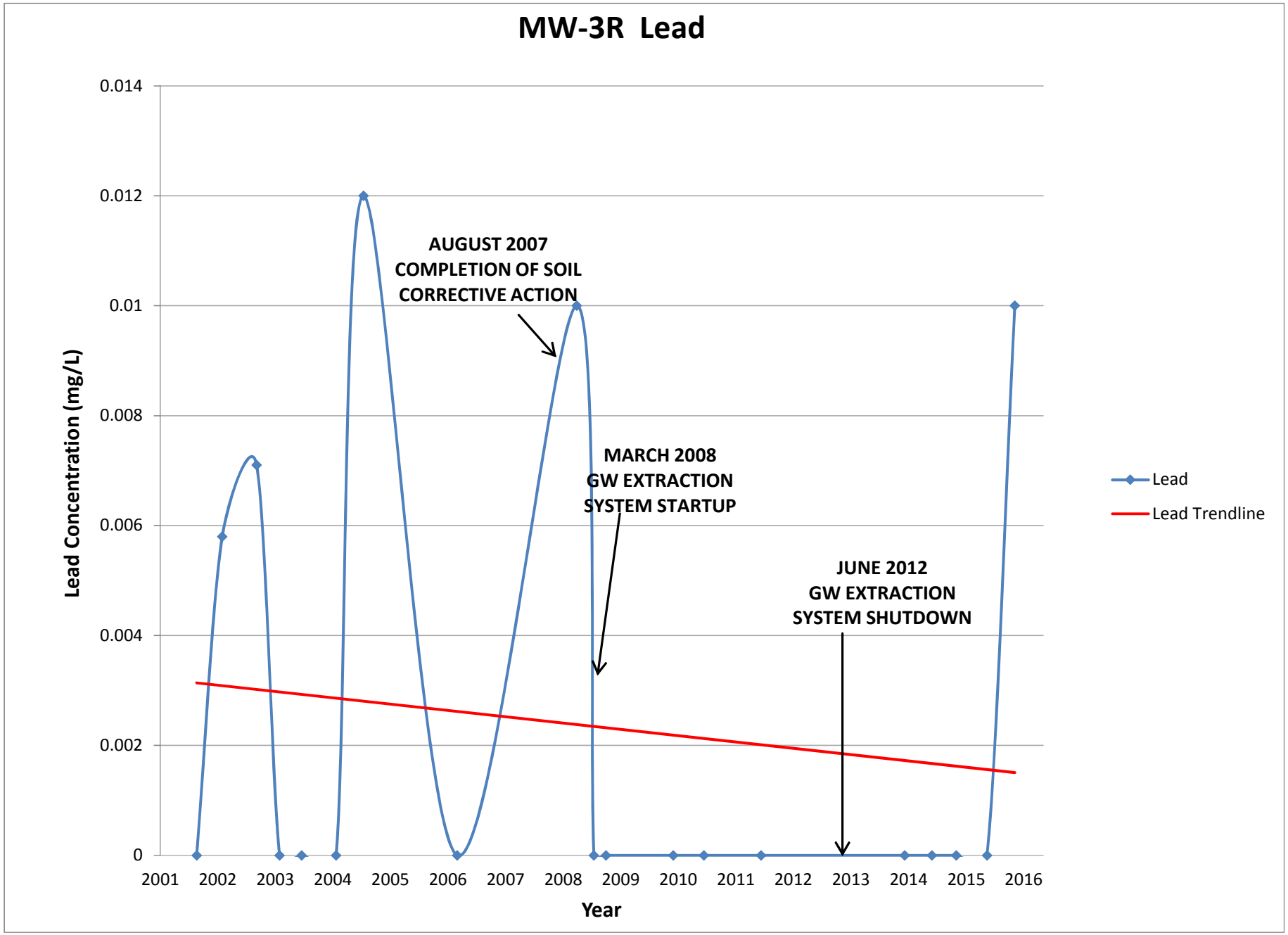

EW-1 Zinc
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Zinc Concentration (mg/L)
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
Zinc
Zinc Trendline

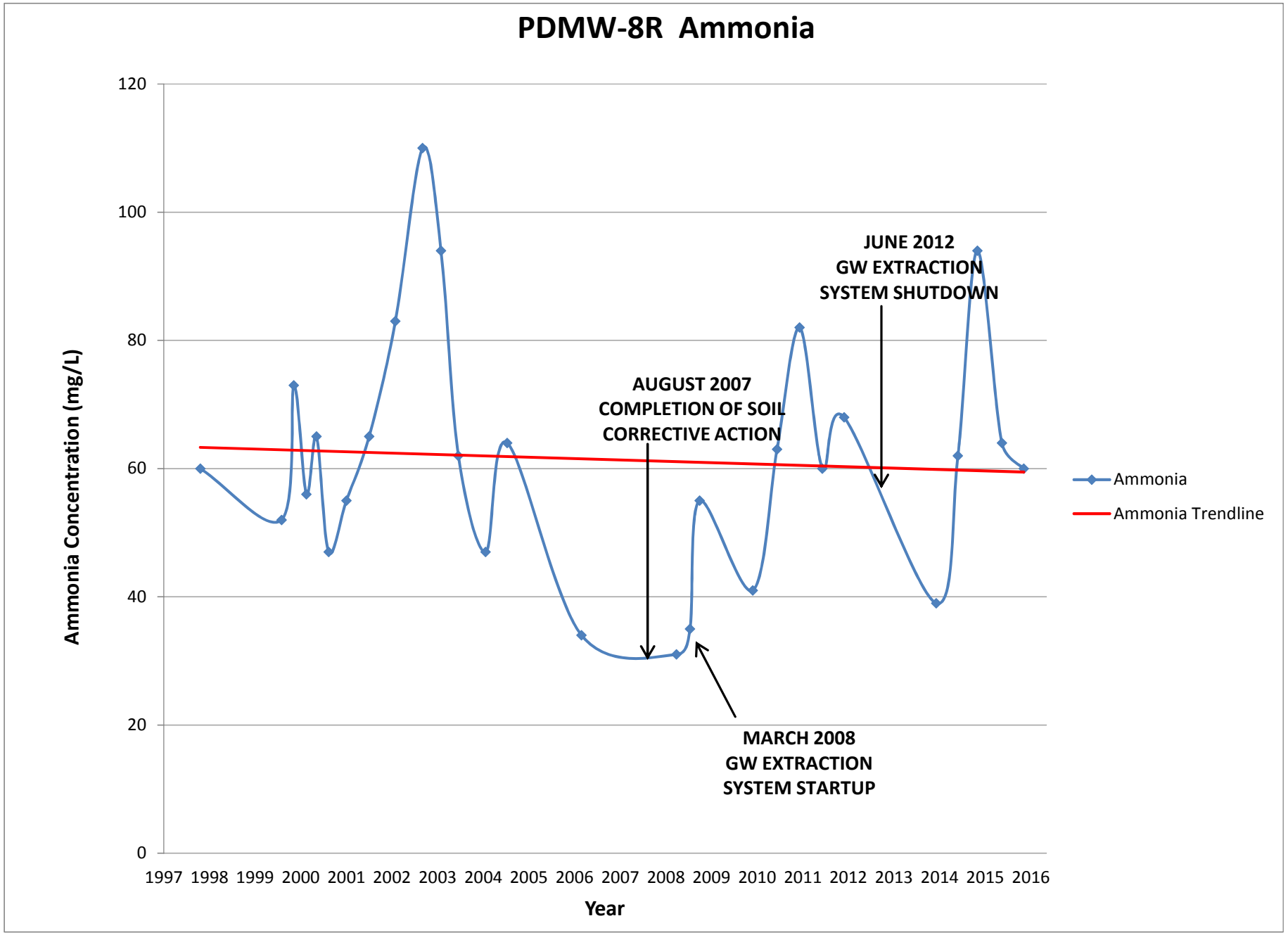

MW-1 Ammonia
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Ammonia Concentration (mg/L)
Year
Ammonia
Ammonia Trendline
0
5
10
15
20
25
30
35
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

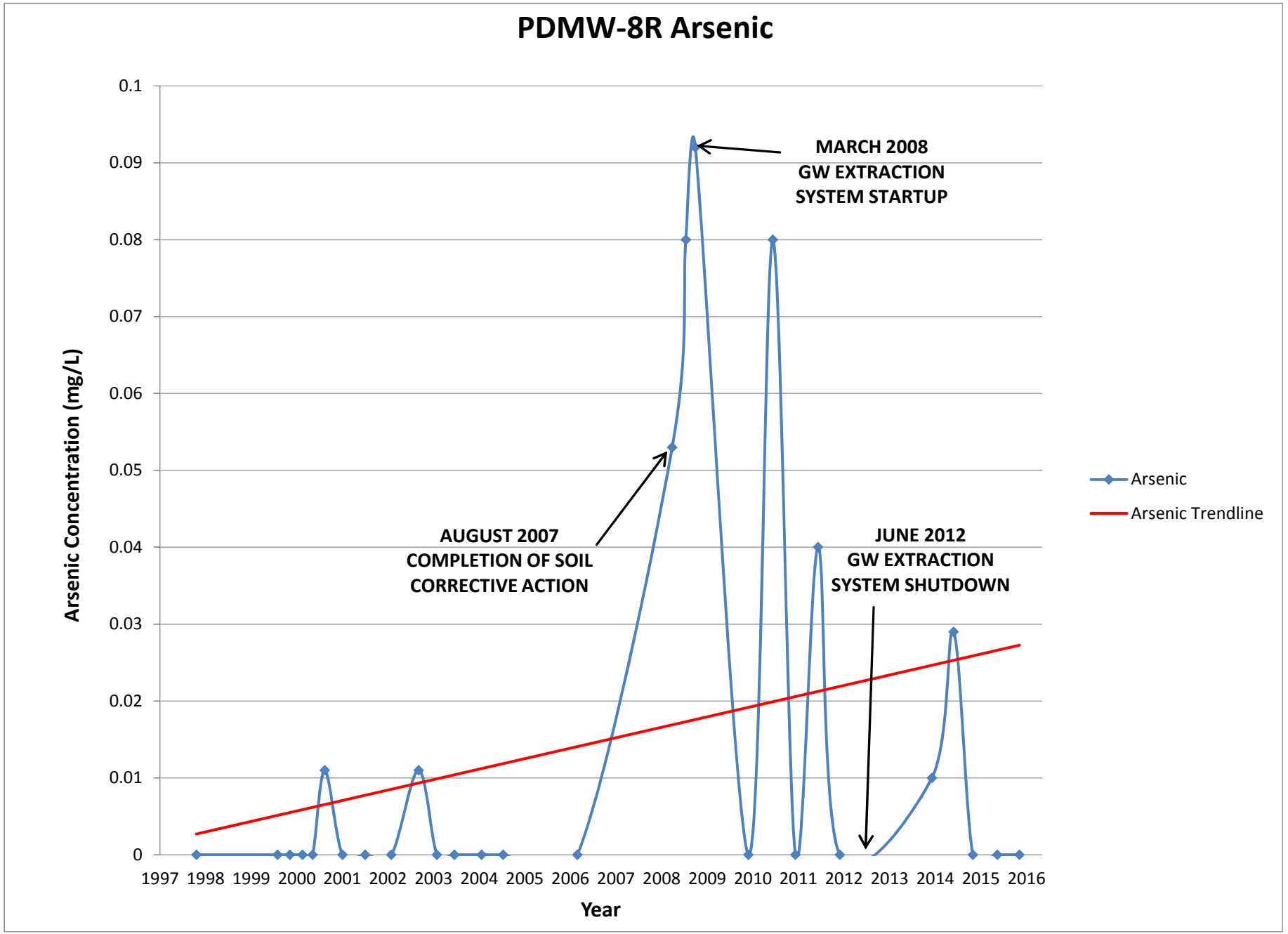

MW-1 Arsenic
Arsenic Concentration (µg/L)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Arsenic
Arsenic Trendline

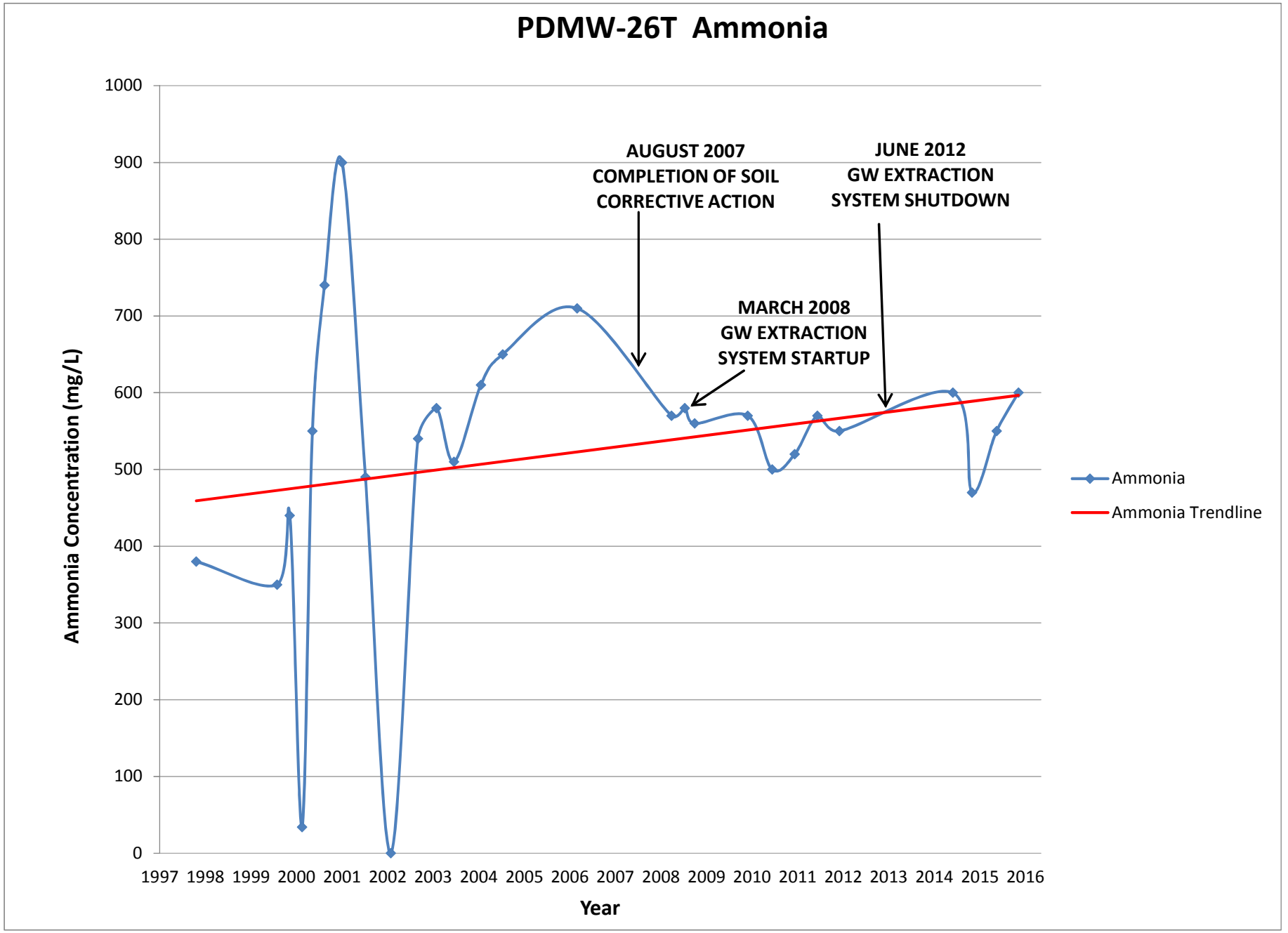

MW-1 Lead
Lead Concentration (mg/L)
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Year
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Lead
Lead Trendline

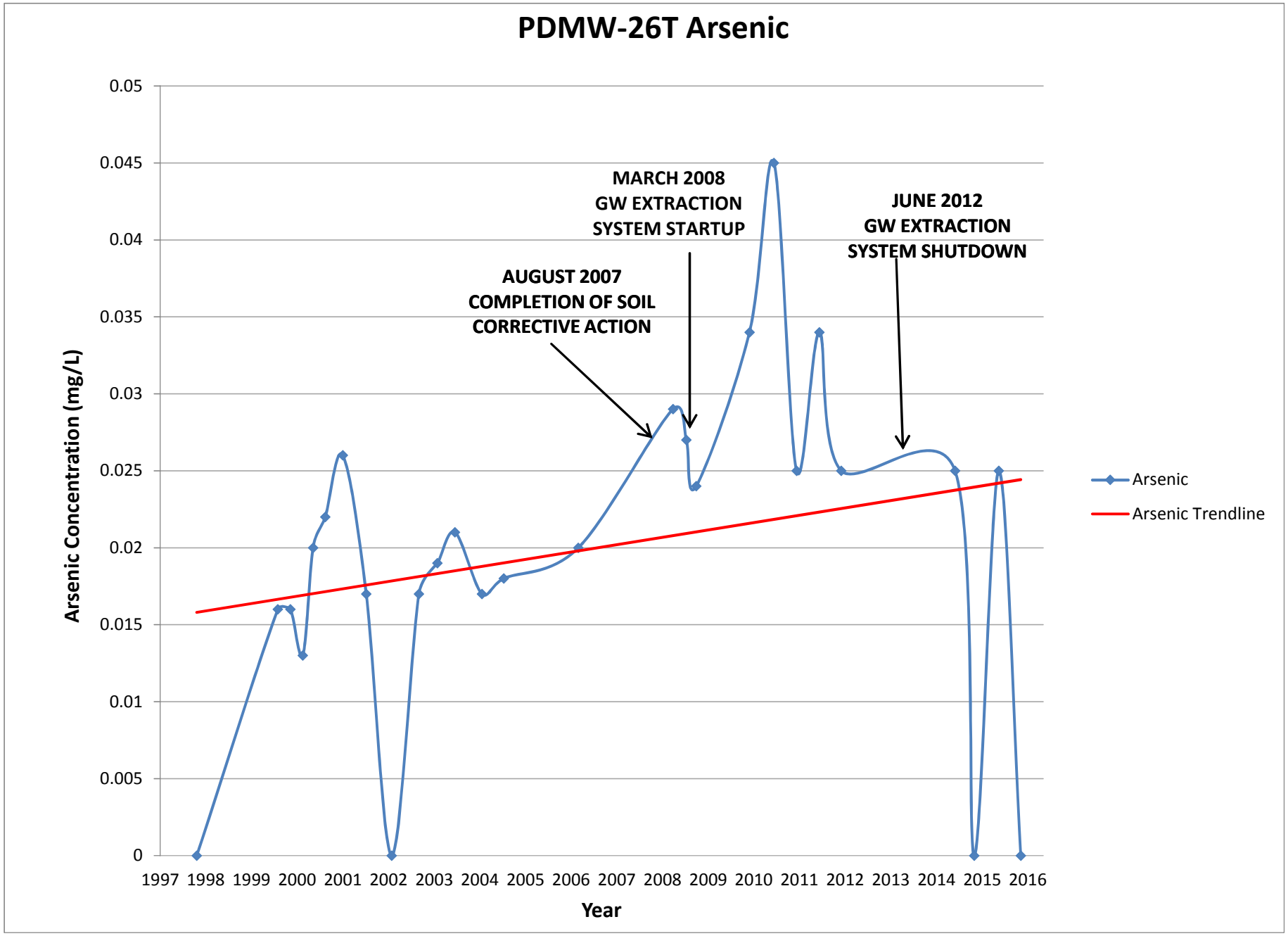

MW-3R Ammonia
Ammonia Concentration (mg/L)
12
10
8
6
4
2
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ammonia
Ammonia Trendline

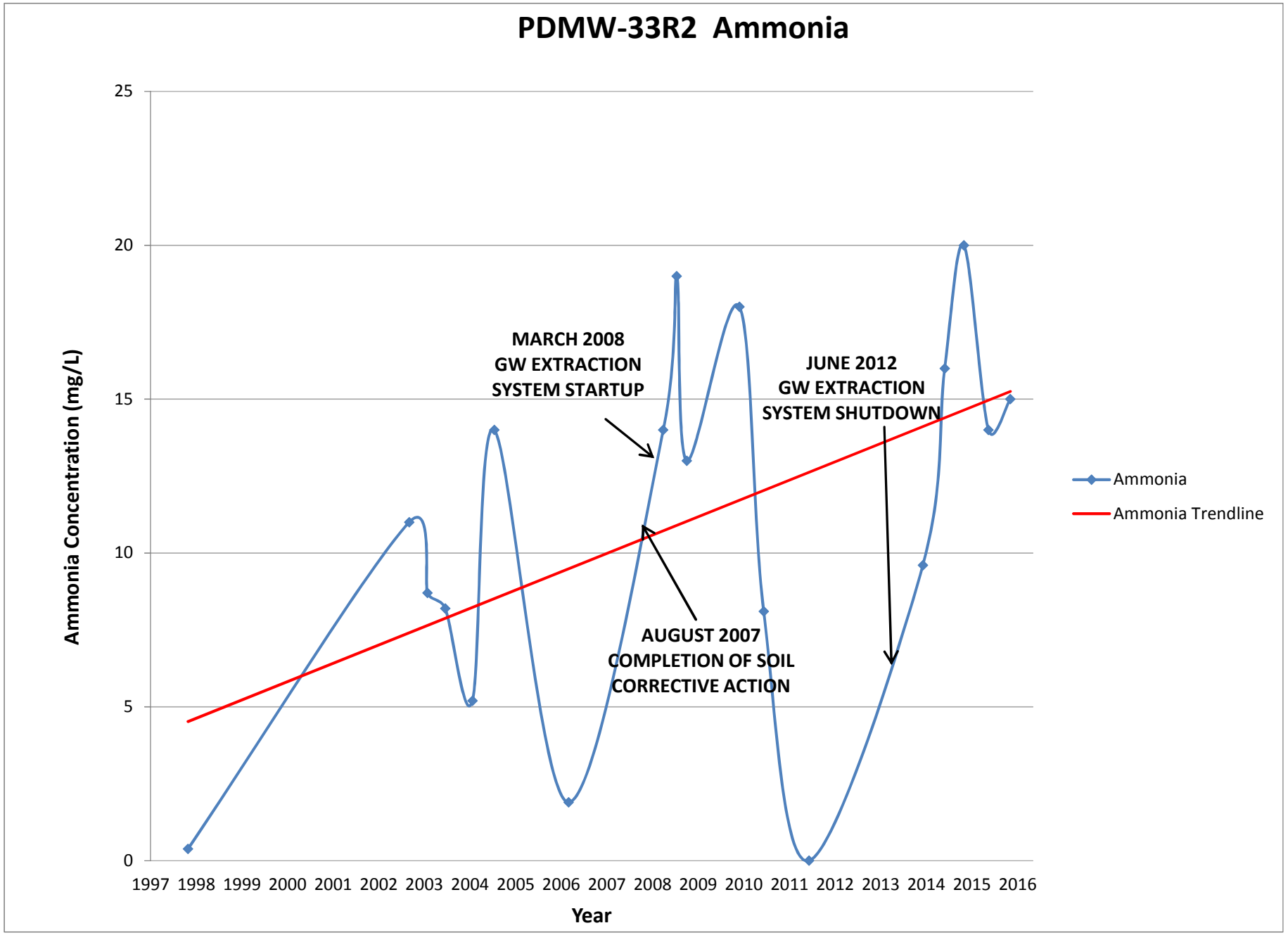

MW-3R Lead
Lead Concentration (mg/L)
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Lead
Lead Trendline

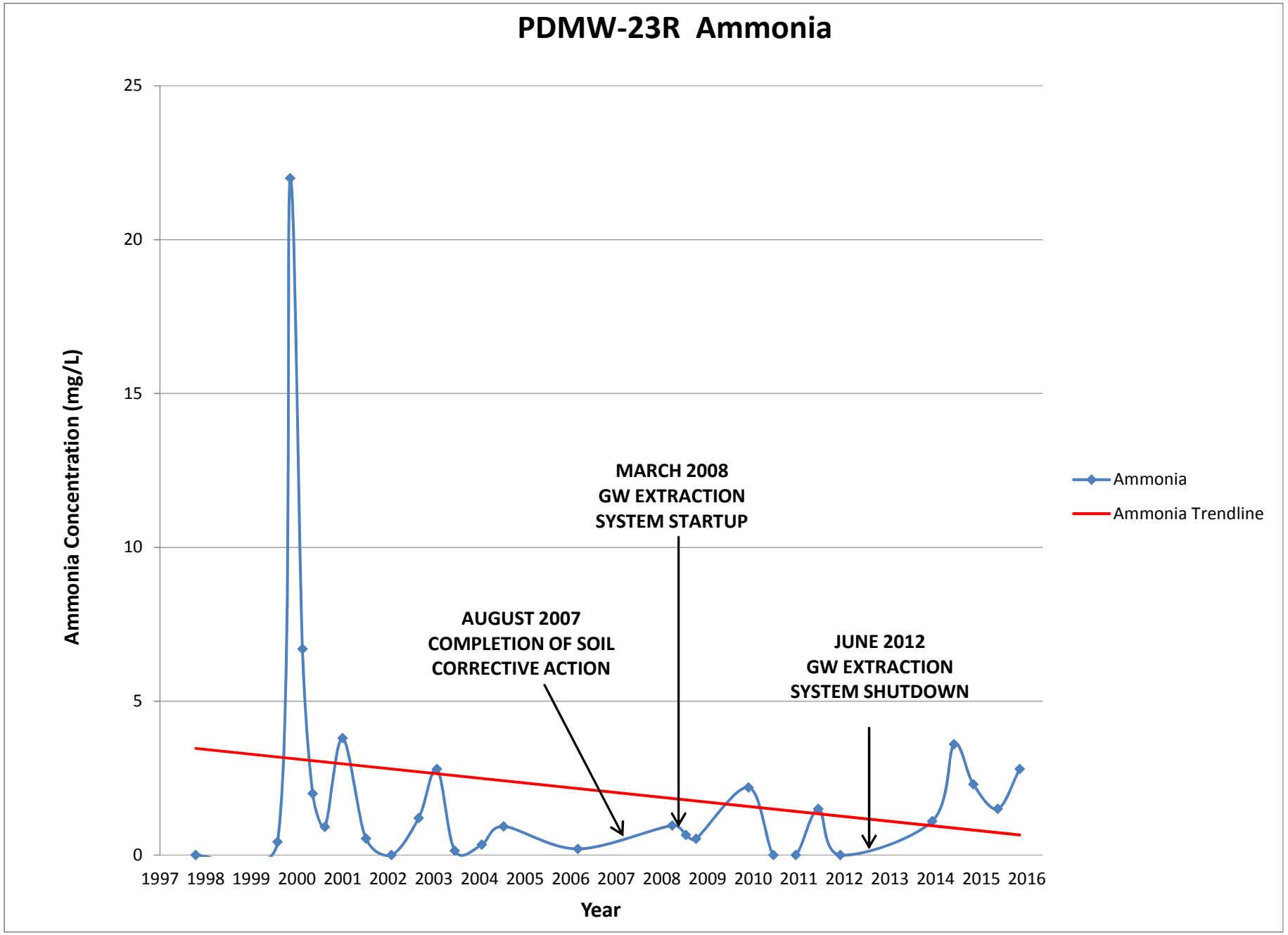

PDMW-8R Ammonia
Ammonia Concentration (mg/L)
120
100
80
60
40
20
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Ammonia
Ammonia Trendline

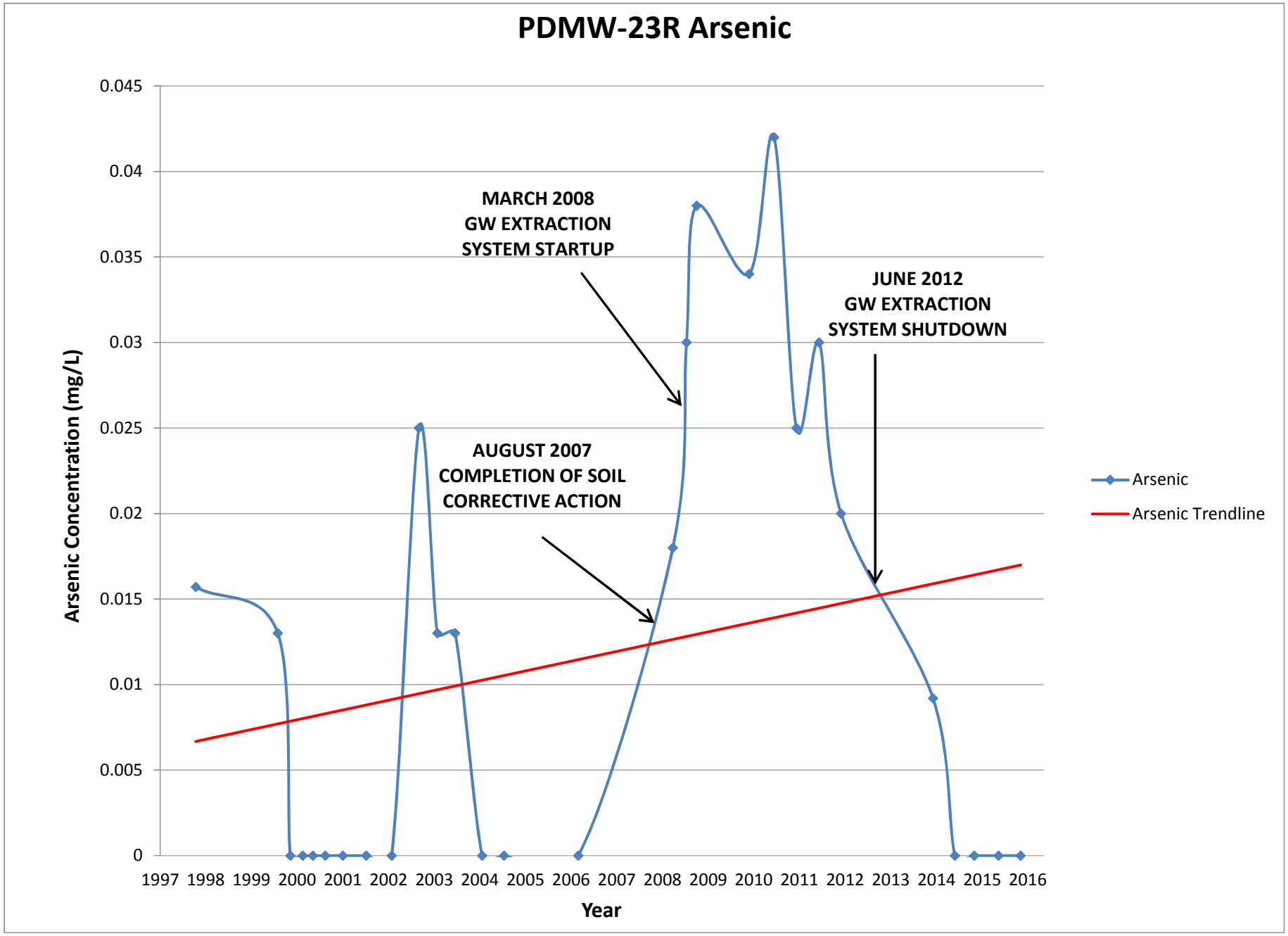

PDMW-8R Arsenic
Arsenic Concentration (mg/L)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Arsenic
Arsenic Trendline

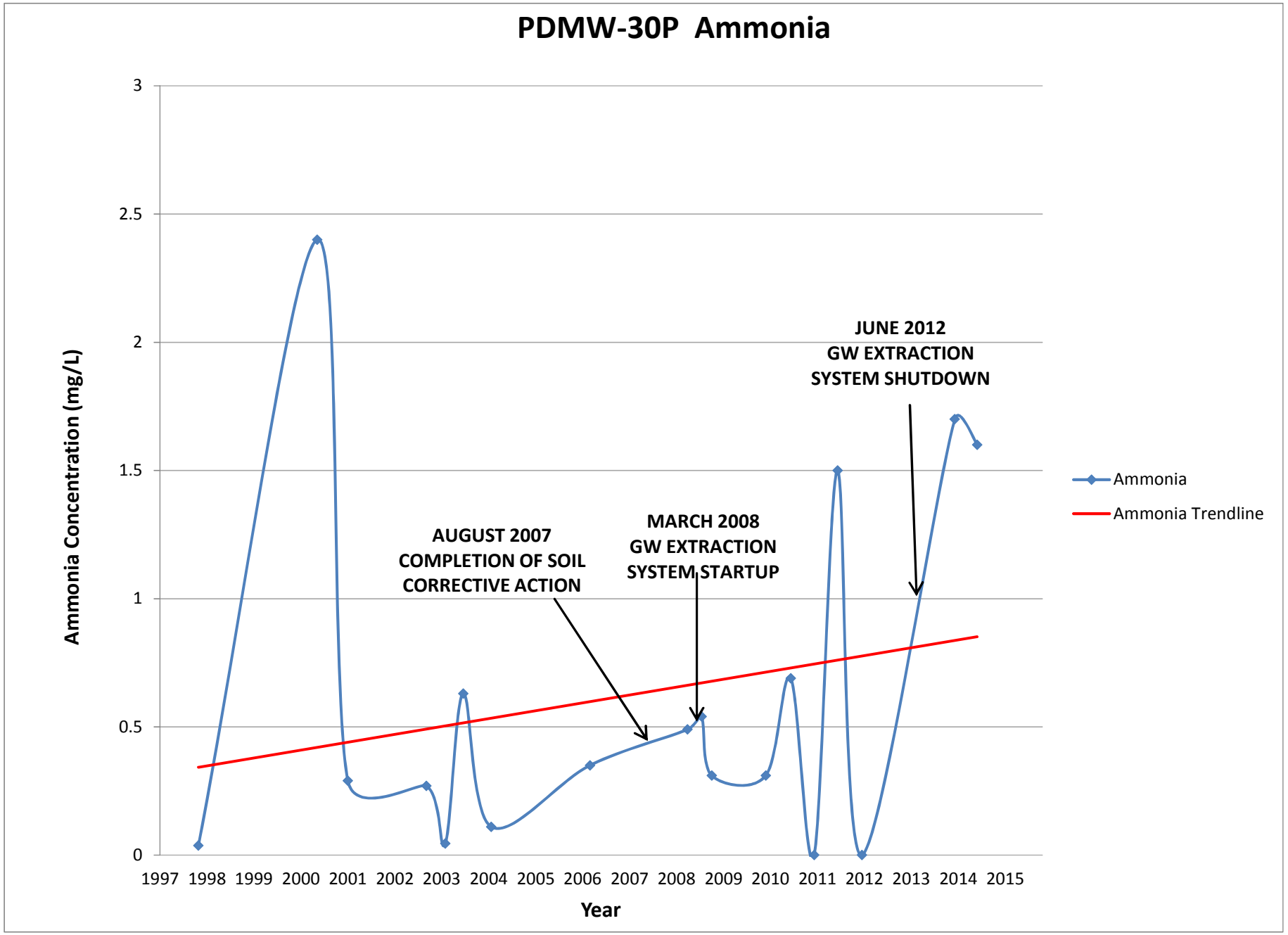

PDMW-26T Ammonia
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
Ammonia Concentration (mg/L)
Year
Ammonia
Ammonia Trendline
0
100
200
300
400
500
600
700
800
900
1000
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016

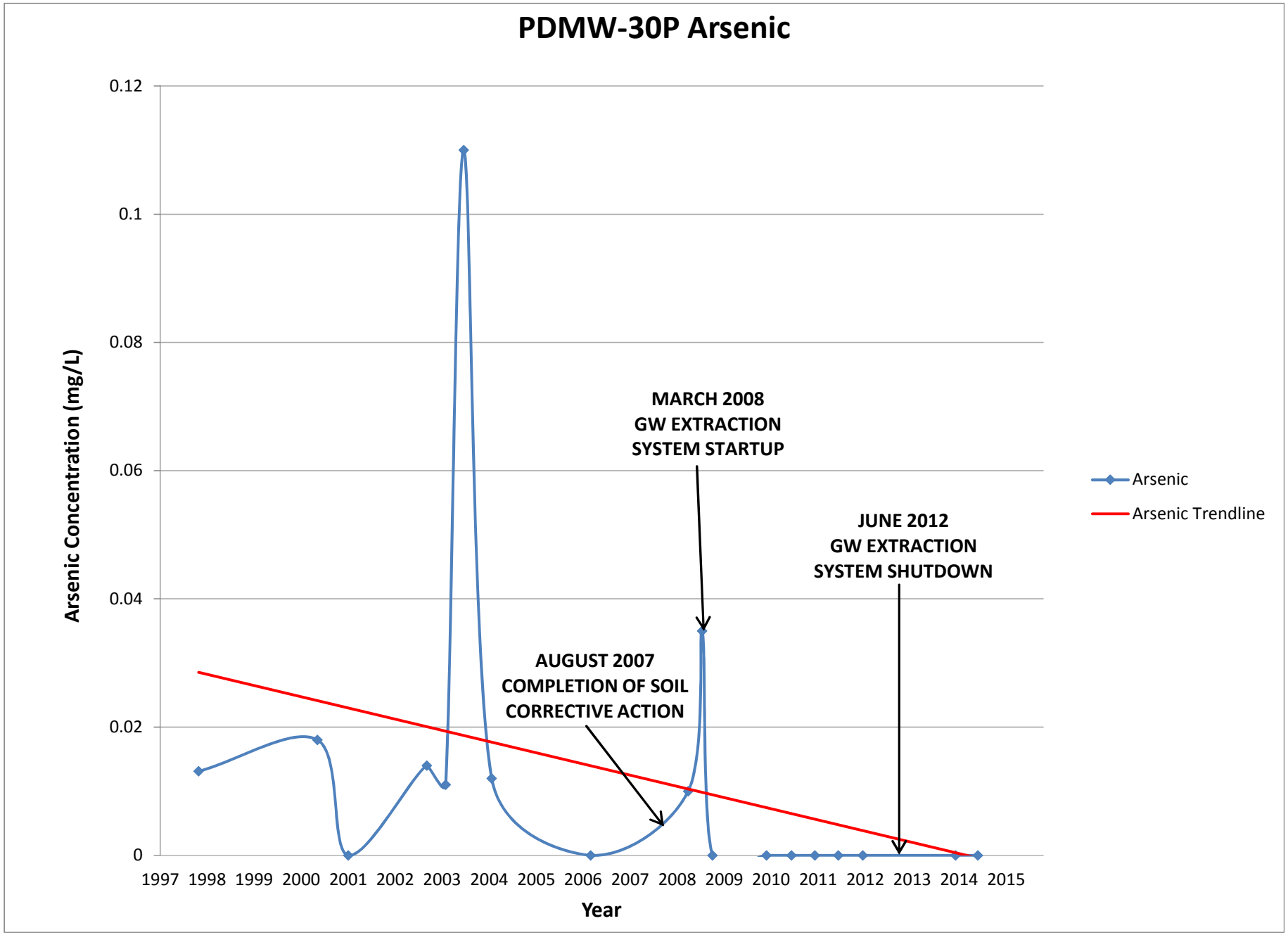

PDMW-26T Arsenic
Arsenic Concentration (mg/L)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Arsenic
Arsenic Trendline

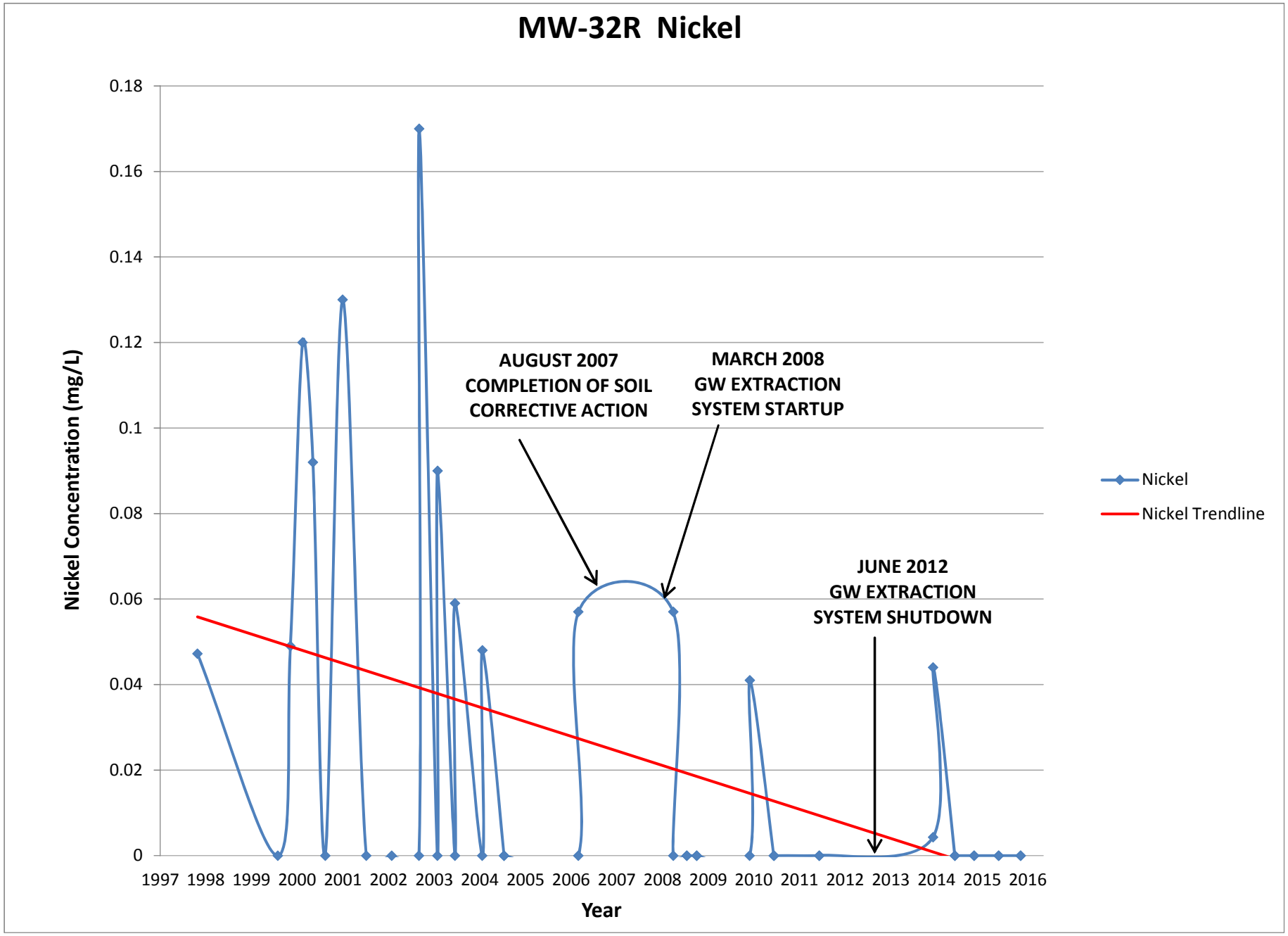

PDMW-33R2 Ammonia
Ammonia Concentration (mg/L)
25
20
15
10
5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Ammonia
Ammonia Trendline

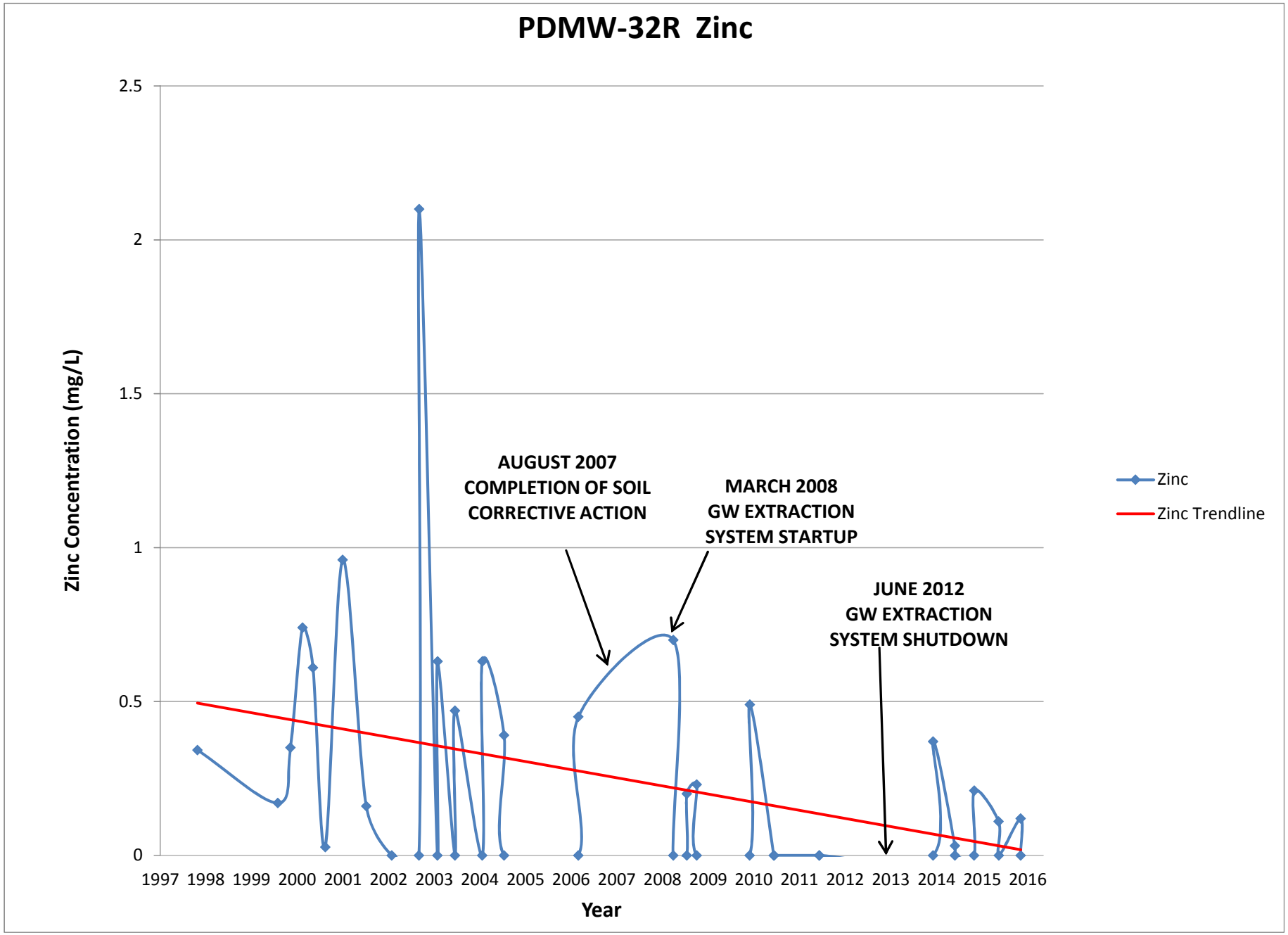

PDMW-23R Ammonia
Ammonia Concentration (mg/L)
25
20
15
10
5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ammonia
Ammonia Trendline

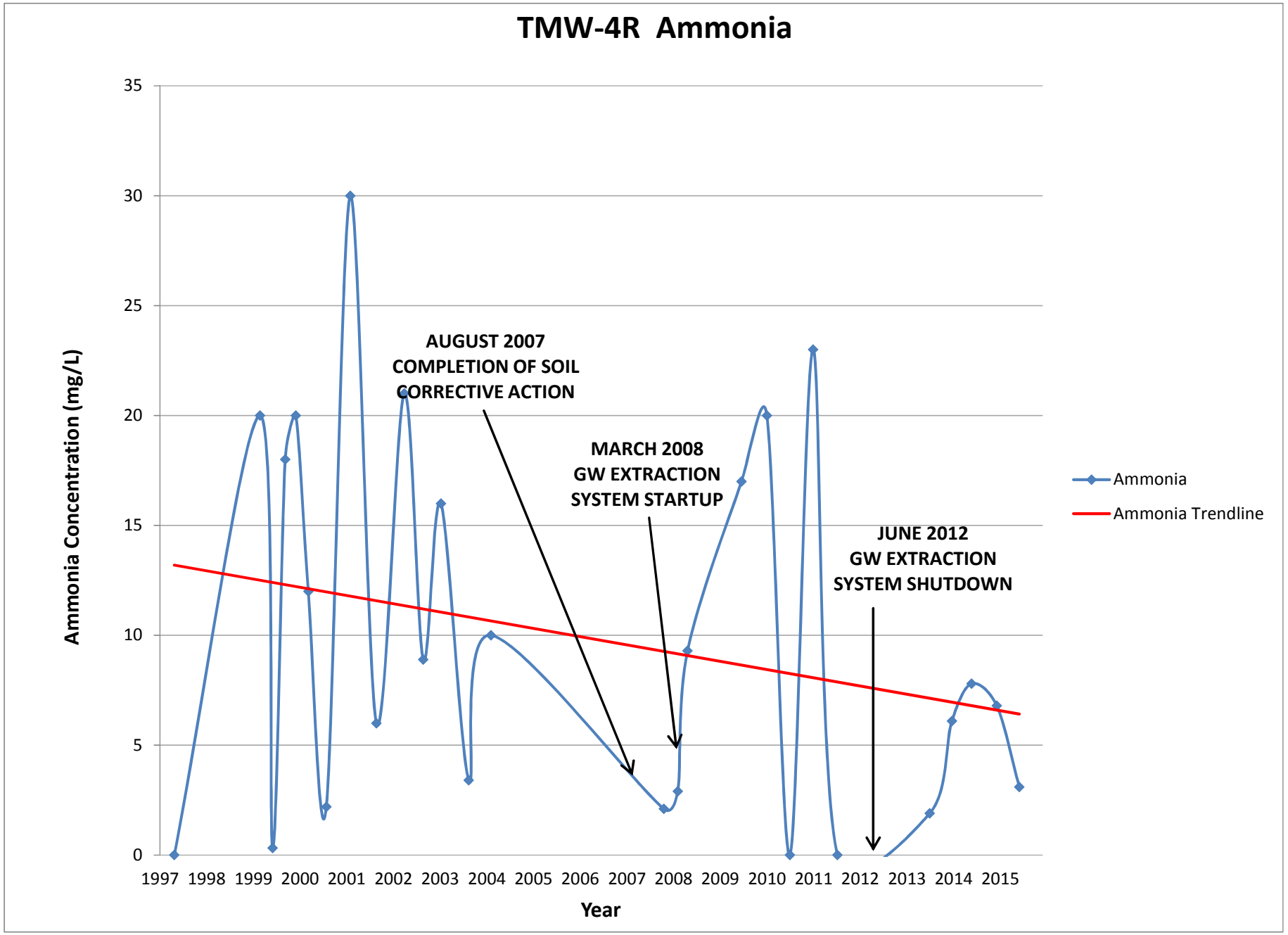

PDMW-23R Arsenic
Arsenic Concentration (mg/L)
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Arsenic
Arsenic Trendline

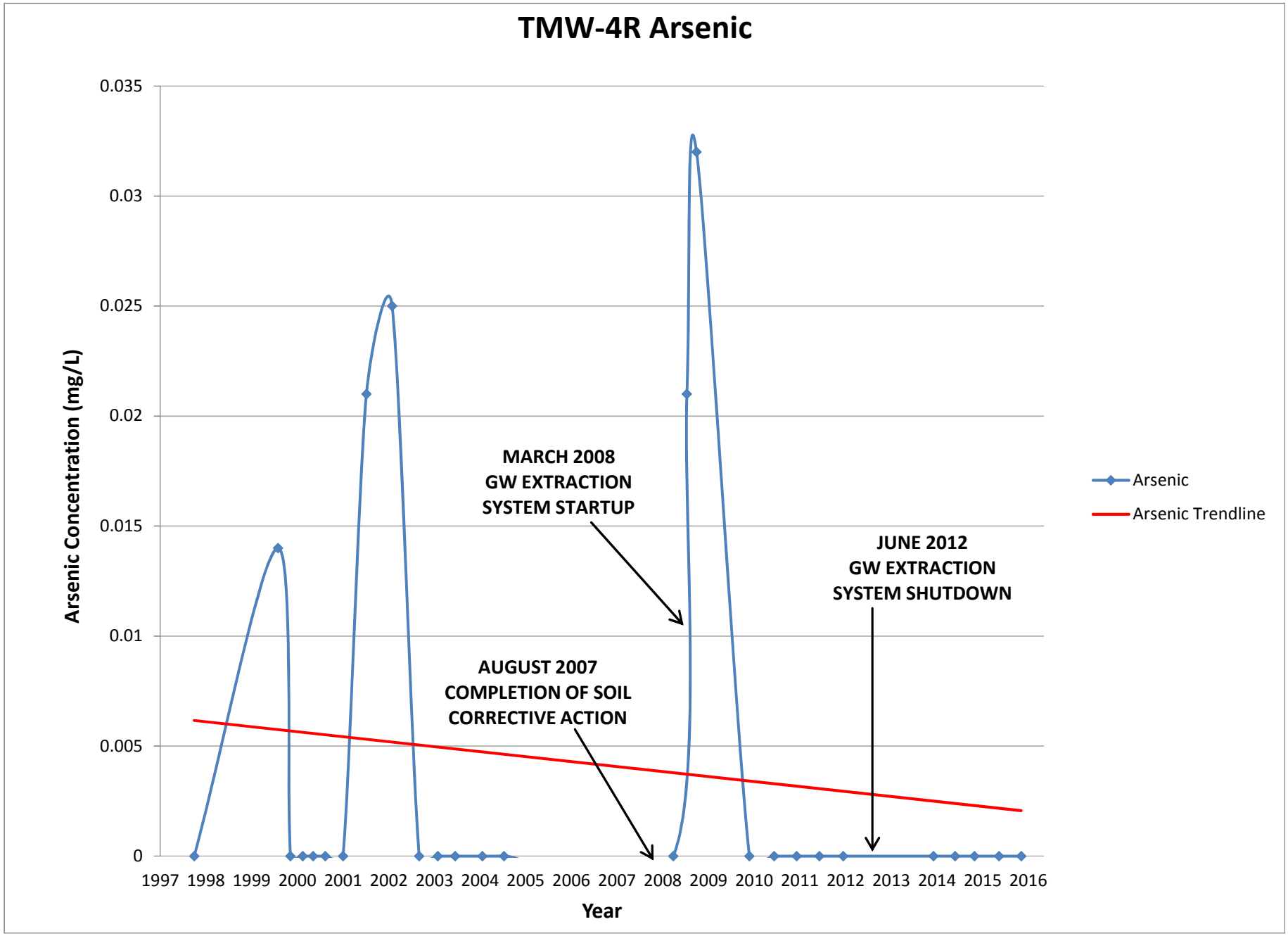

PDMW-30P Ammonia
Ammonia Concentration (mg/L)
3
2.5
2
1.5
1
0.5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ammonia
Ammonia Trendline


PDMW-30P Arsenic
Arsenic Concentration (mg/L)
0.12
0.1
0.08
0.06
0.04
0.02
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
Arsenic
Arsenic Trendline

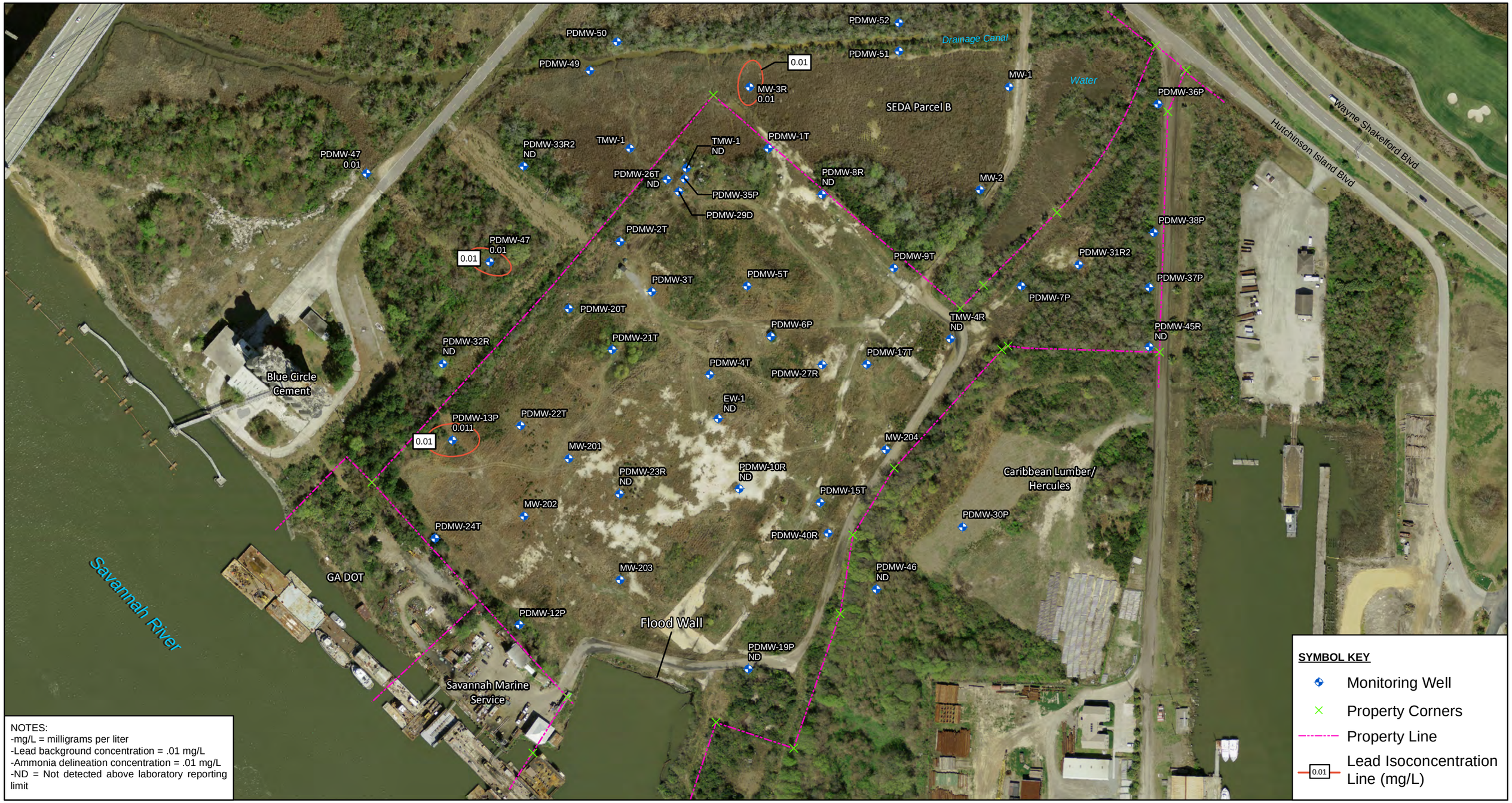

MW-32R Nickel
Nickel Concentration (mg/L)
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Nickel
Nickel Trendline


PDMW-32R Zinc
Zinc Concentration (mg/L)
2.5
2
1.5
1
0.5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Zinc
Zinc Trendline


TMW-4R Ammonia
Ammonia Concentration (mg/L)
35
30
25
20
15
10
5
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Year
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Ammonia
Ammonia Trendline


TMW-4R Arsenic
Arsenic Concentration (mg/L)
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016
Year
MARCH 2008
GW EXTRACTION
SYSTEM STARTUP
AUGUST 2007
COMPLETION OF SOIL
CORRECTIVE ACTION
JUNE 2012
GW EXTRACTION
SYSTEM SHUTDOWN
Arsenic
Arsenic Trendline

APPENDIX E
ISOCONCENTRATION DRAWINGS



NOTES:
-mg/L = milligrams per liter
-Lead background concentration = .01 mg/L
-Ammonia delineation concentration = .01 mg/L
-ND = Not detected above laboratory reporting limit

SYMBOL KEY

- Monitoring Well
- Property Corners
- Property Line
- Lead Isoconcentration Line (mg/L) (0.01)

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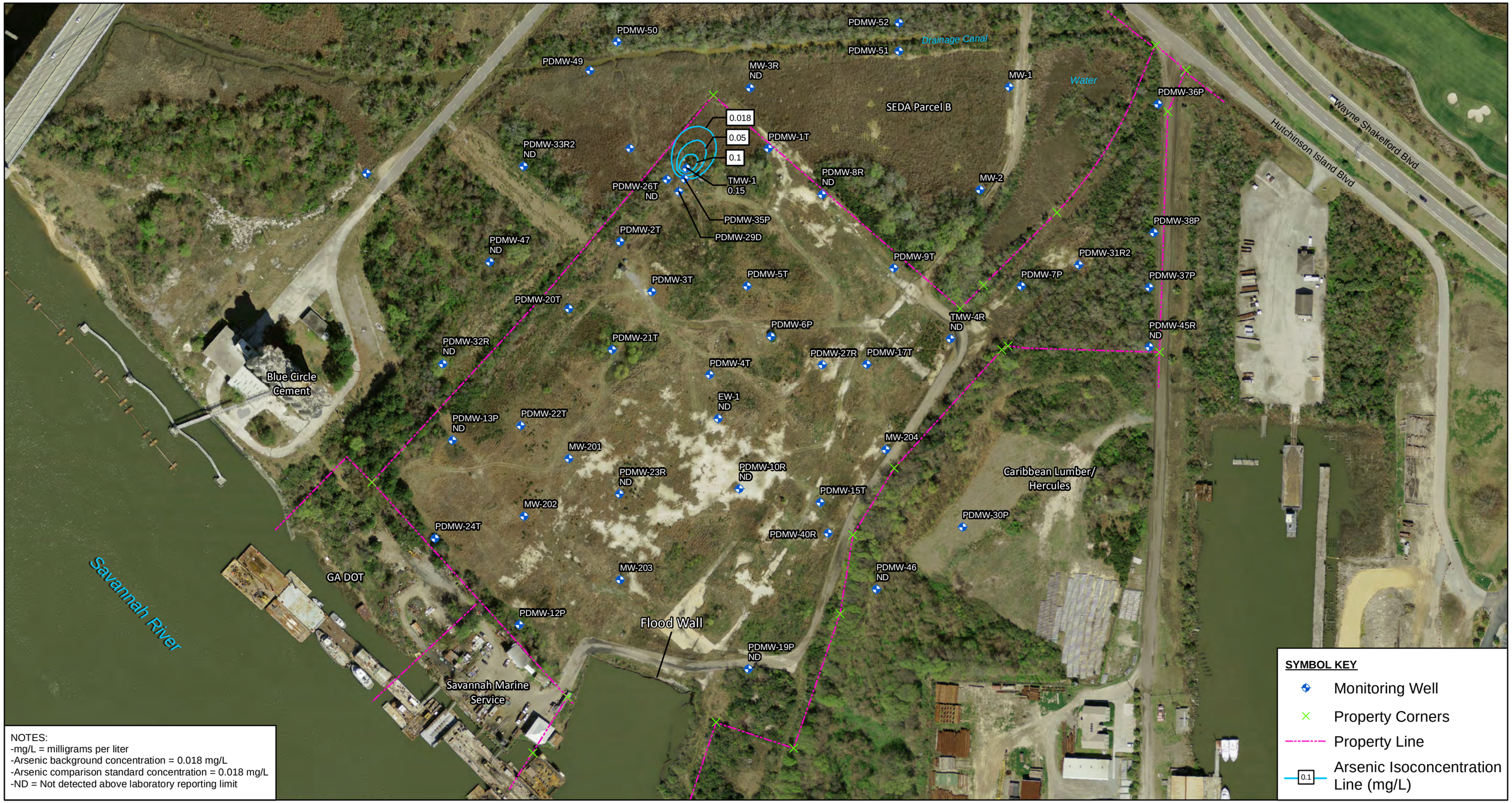
CSX Transportation, Inc.

FIGURE E-1

Lead Isoconcentration Map - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

0 200 400 800 1,200 1,600 Feet

01/05/2016	REV:	File: CSXT_Hutch_Is_Ammonia_Conc_Dec2015Rpt.mxd
Drawn: JBO	PROJ: 6-4300-5245	March 2011 aerial data source: USGS; obtained through The National Map online GIS Data Viewer.



NOTES:
-mg/L = milligrams per liter
-Arsenic background concentration = 0.018 mg/L
-Arsenic comparison standard concentration = 0.018 mg/L
-ND = Not detected above laboratory reporting limit

SYMBOL KEY

- Monitoring Well
- Property Corners
- Property Line
- Arsenic Isoconcentration Line (mg/L) (0.1)

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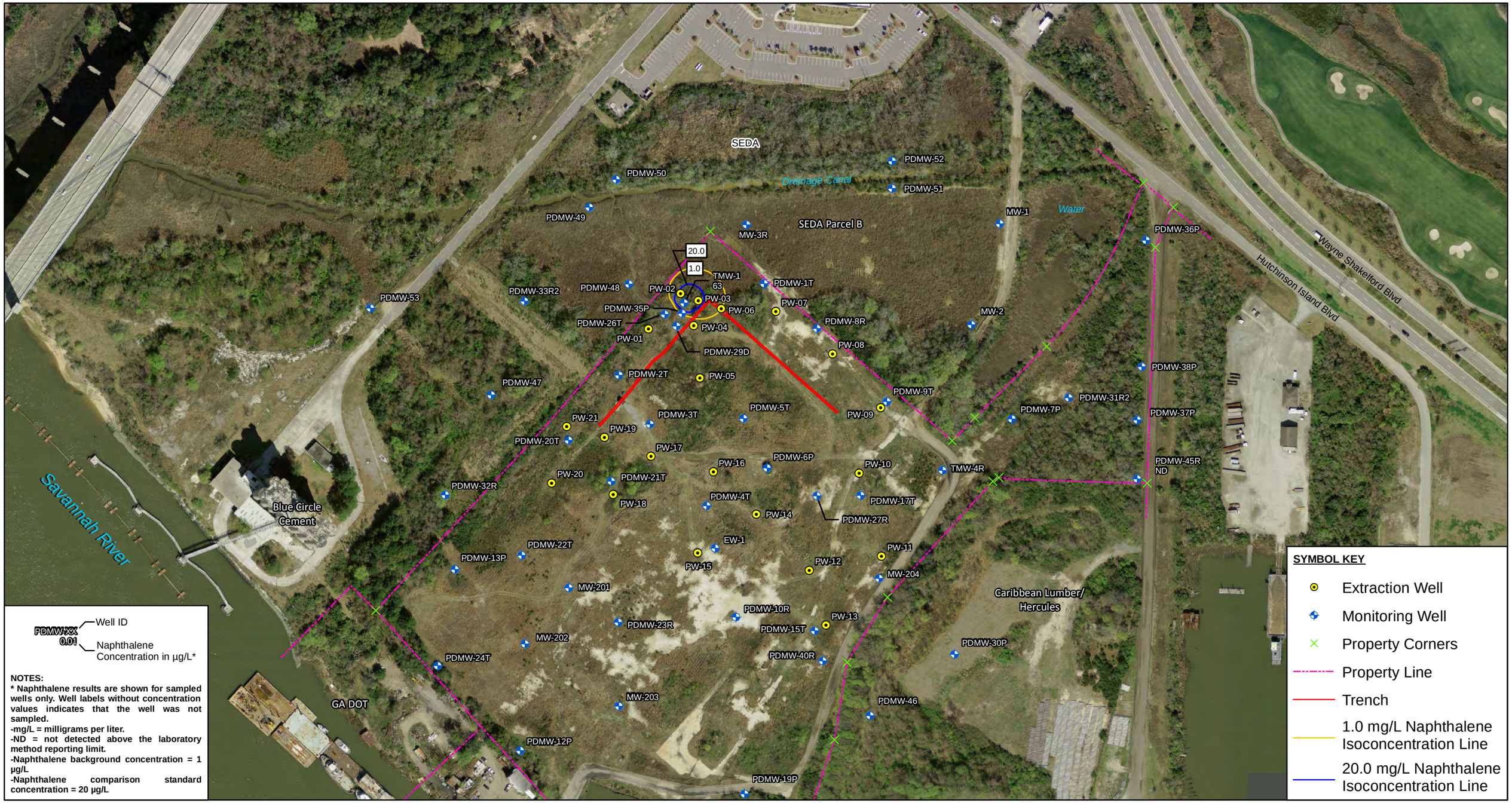
CSX Transportation, Inc.

FIGURE E-2

Arsenic Isoconcentration Map - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

0 200 400 800 1,200 1,600 Feet

01/06/2016	REV:	File: CSXT_Hutch_Is_Ammonia_Conc_Dec2015Rpt.mxd
Drawn: JBO	PROJ: 6-4300-5245	March 2011 aerial data source: USGS; obtained through The National Map online GIS Data Viewer.



PDMW-XX
0.01
Well ID
Naphthalene Concentration in µg/L*

NOTES:
*** Naphthalene results are shown for sampled wells only. Well labels without concentration values indicates that the well was not sampled.**
-mg/L = milligrams per liter.
-ND = not detected above the laboratory method reporting limit.
-Naphthalene background concentration = 1 µg/L
-Naphthalene comparison standard concentration = 20 µg/L

SYMBOL KEY

- Extraction Well
- Monitoring Well
- Property Corners
- Property Line
- Trench
- 1.0 mg/L Naphthalene Isoconcentration Line
- 20.0 mg/L Naphthalene Isoconcentration Line

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N

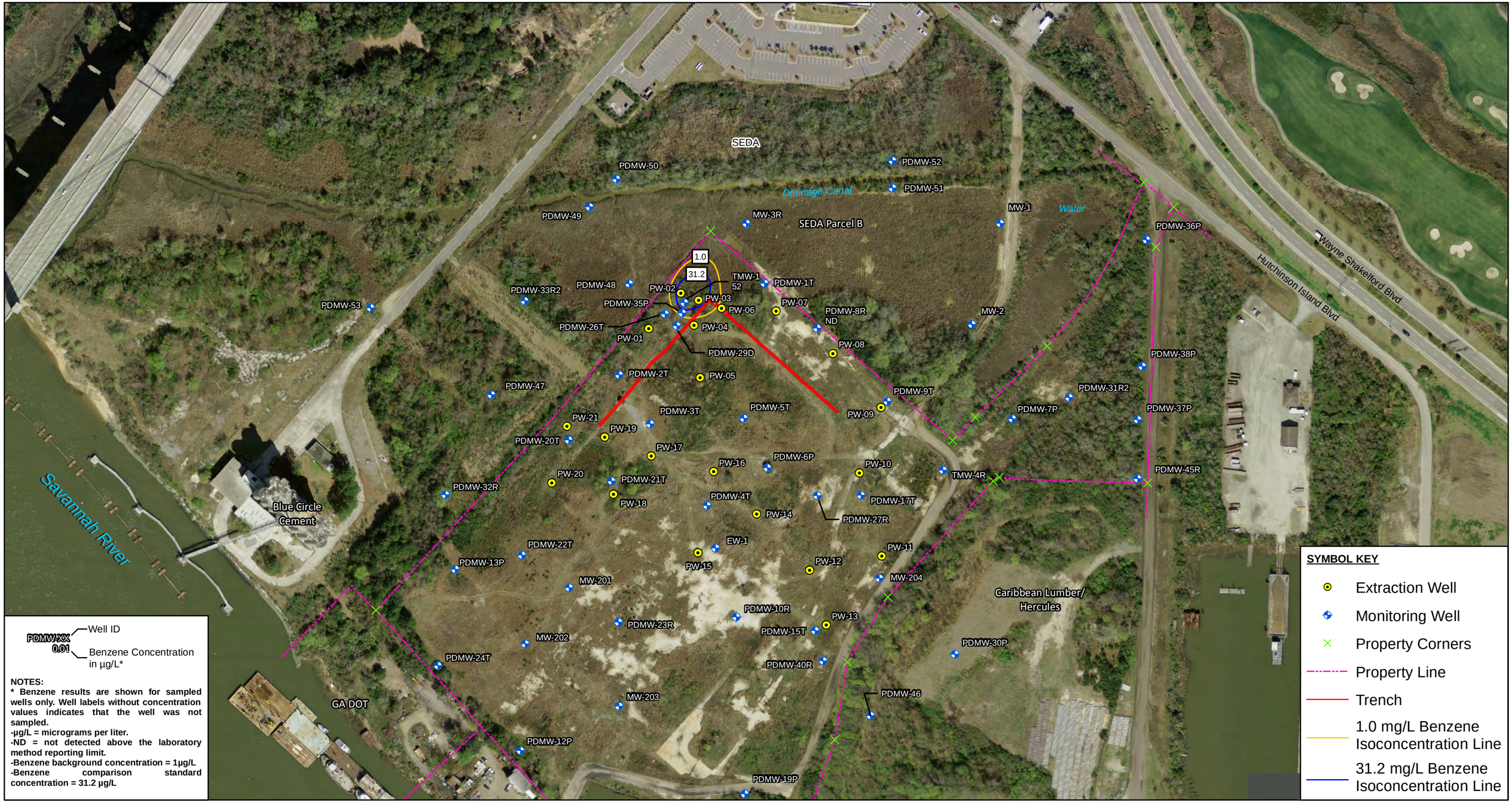
CSX Transportation, Inc.

FIGURE E-3

Naphthalene Isoconcentration Map - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

0 200 400 800 1,200 1,600 Feet

01/12/2016	REV:	CSXT_Hutch_Is_Naphthalene_Conc_Dec2015Rpt.mxd
Drawn: JBO	PROJ: 6-4300-5245	Aerial data source: USGS



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N

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FIGURE E-4

Benzene Isoconcentration Map - November 2015
Hutchinson Island HSI - 10101 - Savannah, Georgia

0 200 400 800 1,200 1,600 Feet

01/12/2016	REV:	CSXT_Hutch_Is_Benzene_Conc_Dec2015Rpt.mxd
Drawn: JBO	PROJ: 6-4300-5245	Aerial data source: USGS

APPENDIX F

REGISTERED PROFESSIONAL SUPPORTING DOCUMENTATION

Stephen R. Foley, P.G.

Summary of Hours and Services

CSX Hutchinson Island

HSI Site No. 10101

Amec Foster Wheeler Project No. 6-4300-5246

Hours for post-approval Voluntary Remediation Plan implementation

1) Completion of January 2016 groundwater monitoring event and evaluation of groundwater monitoring data

   18 hours invoiced between November 30, 2015 and December 8, 2015

2) Preparation of January 2016 Semi-Annual VRP Progress Report

   46 hours invoiced between December 14, 2015 and January 14, 2016