Voluntary Remediation Program
Semiannual Progress Report
Former Olympic Manufacturing/ Diversey Site
HSI Site No. 10435

Prepared for

The Hillshire Brands Company
Rathon Corp.

June 2015

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3051 Olympic Industrial Drive
Smyrna, Cobb County, Georgia 30080
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Technical Certification

I certify that I am a qualified environmental professional who has received a baccalaureate or post-graduate degree in a natural science or engineering, and have sufficient training and experience in groundwater hydrology, engineering, 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 by myself or by a subordinate working under my direction.

Patricia C. Reifenberger

Patricia C. Reifenberger, P.E.

June 30, 2015
(date)

Georgia Registration Number: 20676

Seal:

Section 1

Introduction

This Semiannual Progress Report for the Former Olympic Manufacturing/Diversey site (Site) was prepared by Brown and Caldwell (BC) on behalf of The Hillshire Brands Company (Hillshire, formerly Sara Lee Corporation) and Rathon Corp. (Rathon) for submittal to the Land Protection Branch of the Georgia Environmental Protection Division (EPD). The Site is enrolled in EPD's Voluntary Remediation Program (VRP) and is listed on EPD's Hazardous Site Inventory as site no. 10435. This report describes work performed related to the Site between January and June 2015.

1.1 Background

The Site history, description, regulatory history, and previous environmental work are described in detail in the Compliance Status Report (CSR) and subsequent addenda submitted in compliance with requirements of the former Hazardous Site Response Act Program (now part of EPD's Response and Remediation Program). Since 2007, Hillshire and Rathon have submitted semiannual reports documenting the work performed during the reporting period and the results of investigative work, remedial measures, and semiannual sampling. Semiannual progress reports have continued to be submitted under the VRP.

1.2 Report Organization

This progress report presents the work conducted from January through June 2015, and as such provides the results of the semiannual groundwater sampling performed in April 2015, efforts to execute land use covenants with neighboring property owners, including sampling an existing well on the neighboring Crimson Three Partners LLP (Crimson) property, and modeling of groundwater flow at the south end of the Site.

The report is organized into six sections. The present section references the project background and provides an outline of the report. The work performed during this period is described in Section 2. Section 3 presents the results of the work conducted this period. The current compliance status of the Site and work planned for the near future is presented in Section 4. Engineers' services this period are summarized in Section 5. Limitations associated with the use of the report are noted in Section 6.

Section 2

Work Performed this Period

Work at the Site since the last submittal to the EPD, which was the December 2014 Semiannual Progress Report, has consisted of:

- Collecting samples from wells on the neighboring Crimson property in March 2015
- Groundwater gauging and sampling in April 2015
- Efforts to execute environmental land use covenants (ELUCs) with neighboring property owners
- Modeling of groundwater of the south end of the Site.

These activities are discussed in the following sections.

2.1 Agreements and Groundwater Sampling on the Crimson Property to the Southwest

Since elevated compounds of concern were detected in groundwater samples from monitoring wells MW-9a and MW-9b on the Crimson property (formerly owned by Olympic Associates LLC [OA] and located southwest of the Site), Hillshire and Rathon have concluded those detected constituents did not originate from the Site. Nevertheless, in an effort to complete delineation and close-out environmental investigations at the Site more quickly, Hillshire and Rathon requested permission from OA to sample the existing wells and/or install new wells on that property several times, but access was not granted. However, following its purchase of the property in 2014, Crimson agreed to cooperate relative to this VRP investigation.

As a result:

- An access agreement was signed to allow Hillshire and Rathon to sample monitoring wells on the Crimson property
- Hillshire and Rathon sampled the four existing monitoring wells on the Crimson property
- An ELUC was signed allowing the Crimson property to be enrolled as a Qualifying Property respecting the Former Olympic Manufacturing Site's existing VRP application and prohibiting the use of groundwater on that property.

The four monitoring wells on the Crimson property (MW-9a, MW-9b, SMW-1 and SMW-2) were gauged and sampled on March 5 and 6, 2015 using the same procedures as used during the semiannual monitoring event described below.

2.2 Semiannual Sampling

The semiannual groundwater monitoring was conducted April 6 through April 9, 2015, as described below. Figure 2-1 provides a Site plan for reference.

2.2.1 Well Gauging

The depth to groundwater in 43 monitoring, delineation, and injection wells at and near the Site was measured to determine the potentiometric surface. The measurements were taken on April 6, 2015 using a 100-foot Heron Dipper-T water level meter prior to any purging or other monitoring activities, and the

measured depths to water were recorded. The down-hole portion of the water level meter was decontaminated with Liquinox and rinsed with distilled water between use at each of the wells.

2.2.2 Sample Collection

Groundwater samples were collected from 15 monitoring wells as shown in Table 2-1, which reflects the updated monitoring program approved by the EPD on October 16, 2013. The wells sampled included both on-site (MW-2, MW-4a, MW-4b, MW-6, MW-8, and MW-11) and off-site wells (MW-9a, MW-9b, MW-12, MW-20, MW-21, OW-72, OW-74A, SMW-1 and SMW-2). As in many prior sampling events, monitoring wells MW-15 and MW-16 were dry.

The monitoring wells sampled were purged prior to sample collection using the procedures specified in the letters from the EPD dated April 17, 2007 and October 16, 2007, and were sampled in accordance with United States Environmental Protection Agency (USEPA) procedures.[1] The wells were purged and sampled using low flow/low stress and low flow/low volume (micro-purging) techniques to minimize entrainment of solid particles. A decontaminated low-flow pump (SS-Geosub 12-Volt DC Stainless Steel low-flow sampling pump made by Geotech Environmental Equipment, Inc.) and/or a bladder pump (Sample Pro Portable Pump made by QED Environmental Systems) were used to purge and sample all wells. Both pumps used are low flow, stainless steel, 2-inch submersible pumps. New polyethylene tubing was used at each well in both methods. In the low flow/low stress method, the pump intake was placed at the top of the water column and slowly lowered as the water column lowered during purging and sampling, until the pumping rate and recharge rate reached equilibrium. In the low flow/low volume method, the pump was placed midway in the screened interval during purging and sampling. Both methods were approved by the EPD in their October 23, 2008 letter. Detailed information regarding the type of equipment and technique used to purge and sample each well, including the depth to the pump intake in each well, is provided on the Groundwater Sampling Field Data Sheets provided in Appendix A.

In keeping with Hillshire's and Rathon's agreement with the EPD reached during a meeting on August 16, 2007, the wells were purged prior to sampling until the turbidity was less than 10 NTU, or as close to that as could be achieved within a reasonable time. If the turbidity remained above 10 NTU, purging was considered complete after three to five well volumes had been removed. The pH, temperature, specific conductivity, oxidation-reduction ("redox") potential, dissolved oxygen, and turbidity of all samples were measured in each well approximately every 5 minutes while purging, and the results were recorded on the data sheets in Appendix A. This timing allowed an adequate volume of water to be purged between measurements to assess field parameter trends. Water level measurements were also recorded approximately every 5 minutes to ensure minimal drawdown. An effort was made to ensure that the rate of groundwater withdrawal did not exceed the rate of recharge in the wells. Wells that went dry during purging due to low initial water levels were allowed to recharge prior to sample collection. Current and historical purging data are summarized in Appendix B. The groundwater samples were collected directly from the pump discharge into laboratory-prepared sample bottles, sealed, placed on ice, and delivered to a certified laboratory for analysis.

Quality assurance/quality control (QA/QC) samples were also collected as follows:

- One equipment blank for each full day of sampling (three total)
- One trip blank for each day samples were submitted to the laboratory (four samples)
- Two duplicate samples (from monitoring wells MW-8 and MW-9a).

[1] USEPA, *Groundwater Sampling Operating Procedure,* SESDPROC-301-R3, Science and Ecosystem Support Division, Athens, Georgia, March 6, 2013.

2.2.3 Sample Analysis

The samples were hand delivered to the Analytical Environmental Services, Inc. laboratory in Atlanta, Georgia for analysis. Copies of the completed chain-of-custody forms are included in Appendix C with the laboratory reports. A letter stipulating that this laboratory is approved per the Georgia Rules for Commercial Environmental Laboratories is provided in Appendix D.

The samples were analyzed for the parameters shown in Table 2-1 as outlined below:

- Volatile organic compounds (VOCs) (USEPA Method 8260B) -- All monitoring well, equipment blank, duplicate, and trip blank samples
- Geochemical parameters (total organic carbon, nitrate, sulfate, ferrous iron, and methane using methods shown on the laboratory reports) – Wells MW-4a, MW-6, MW-8 and MW-12
- Total manganese (USEPA Method 6010C) – Well MW-8 (located in the vicinity of the previous in situ chemical oxidation [ISCO] injections).

2.2.4 Data Validation

Data validation was performed on the analytical results to verify that the data generated by the laboratory are of acceptable quality to allow appropriate decisions to be made. Data validation included a quality control review of the field and laboratory-generated data following USEPA guidelines[2] in order to answer the following questions:

- Were field procedures, including sample collection, handling and storage properly followed?
- Do the reported data include all requested analytical results for all samples collected?
- Were the correct analytical methods used and reported?
- Are there any anomalous results?
- Were results for QA/QC samples acceptable?

Validation included a review of field notes, sample holding times, blank contamination, spike recoveries, and duplicate precision. Following this review, data was qualified appropriately in the tables if problems were found. Copies of the data validation forms are included in Appendix C with each laboratory report.

2.3 Environmental Covenants

As described in Section 4, ELUCs prohibiting future use or extraction of groundwater will be used to demonstrate compliance with Site cleanup levels in certain areas. Hillshire and Rathon have pursued ELUCs and/or alternative confirmation with five owners of property affected by the constituents of concern (COCs) from the Site. These owners are listed below and the respective properties are shown on Figure 2-2:

- Airgas Refrigerants, Inc. (Airgas)- the current owner of the Former Olympic Manufacturing/Diversey property (tax parcel identification numbers [ID nos.] 17096200150 and 17096200220)
- Cobb County Department of Transportation (CCDOT) - three parcels: 1) Olympic Industrial Drive north and northeast of the Site, 2) South Atlanta Road (on the north side of the Wesley property), and 3) Industrial Court, between the Site and the Crimson property. No tax ID no. is issued for these parcels
- State Properties Commission (SPC) - property northeast of the Site on which an active CSX Transportation, Inc. (CSXT) rail line operates. No tax ID no. is issued for this state-owned property
- Wesley Properties- property northeast of the Site across the rail line (tax ID no. 17096200070)
- Crimson- property southwest of the Site formerly owned by OA (tax ID no. 17096200140).

[2] USEPA, *National Functional Guidelines for Superfund Organic Methods Data Review*, USEPA Contract Laboratory Program, Office of Superfund Remediation and Technology Innovation, USEPA-540-R-08-01, 2008.

Substantial effort has been applied during this reporting period in an effort to execute ELUCs that prohibit the use of the groundwater on the properties and enroll the properties as Qualifying Properties under the Site's VRP application. Progress has been made on all five of these properties and the recent efforts and current status for each is summarized below.

2.3.1 Airgas

A draft ELUC was previously submitted to Airgas; however, as they were unfamiliar with the VRP ELUC process, it was progressing slowly. Then in 2015, following guidance provided to Airgas from a local environmental attorney suggested by Hillshire and Rathon, progress was been made. An updated draft ELUC was provided to Airgas in April 2015 and, following additional discussion, on June 2 Airgas responded through their attorney that they would sign the covenant. When it is received Hillshire and Rathon will notify the adjoining property owners and parties with interest in the property, if any, as required, and then forward the covenant to EPD for signature.

2.3.2 State Properties Commission

The rail line property east of the Site is owned by the state of Georgia through the SPC. In late 2014 and early 2015, Hillshire and Rathon communicated with the SPC to outline the VRP process and the ELUC requested; however, as the property is owned by the State, executing an ELUC is a complicated matter. As an alternative, on March 3, 2015 the SPC provided a letter to the EPD confirming that the State does not intend to utilize groundwater at this location and that potable water is available on the property via the Cobb County Water Department should it be necessary. A copy of this letter is provided in Appendix E. The EPD confirmed that this letter will suffice in lieu of an ELUC on this parcel in an email dated March 5, 2015.

2.3.3 Wesley Properties

Following numerous initially unsuccessful written and telephone communications by Hillshire and Rathon, the owner of the Wesley property has agreed to execute the requested ELUC. Hillshire and Rathon provided Wesley with an updated ELUC for signature on June 2, 2015. Based on a follow-up call on June 24, 2015, one of the partners has signed the ELUC, had it notarized, and provided it to the second partner to sign.

2.3.4 Cobb County

Following ongoing discussions and review of a draft ELUC by Cobb County in 2014, Hillshire and Rathon provided the County with the simplified ELUC developed by EPD in the last year for properties where the only restriction required is relative to groundwater use. The County agreed in concept with this updated ELUC early January 2015, and over the next few months additional questions from the County were addressed. The County attorney was preparing to obtain County Board approval to sign the ELUC when the results of the new groundwater modeling (Section 3-3 of this report) indicated that a third parcel of Cobb County roadway (on Industrial Court) should be added.

Additionally, it has recently been determined that there are no deeds associated with the identified Cobb County parcels to which to attach the ELUC. Hillshire and Rathon communicated with the EPD on this issue and the EPD has indicated that a letter similar to that provided by the SPC to document their acceptance of the groundwater use restriction would be acceptable in this situation. The County attorney is open to this approach and is confirming with other County representatives. The annual reporting to confirm compliance with RRS for the County rights-of-way would be included with that provided for the Former Olympic Manufacturing parcel.

2.3.5 Crimson Partners, LLC

As noted above, Crimson signed an access agreement on January 28, 2015, allowing Hillshire and Rathon to collect groundwater samples on the Crimson property. Additionally, an ELUC was executed, and was sent to

the EPD for the Director's signature on April 9, 2015. Owners of property adjoining and having an interest in the Crimson property were notified in writing of the ELUC and were sent a copy of the ELUC in letters dated April 30 through May 13, 2015. Confirmation of receipt of these letters was submitted to the EPD on May 28, 2015. When Hillshire and Rathon receive the ELUC signed by the Director from EPD, the ELUC will be filed with the Cobb County Recorder of Deeds and a copy of the file-stamped covenant will be provided to EPD.

2.4 Groundwater Modeling

Groundwater fate and transport modeling to demonstrate compliance with the Site VRP cleanup levels in the area of monitoring wells MW-9a and MW-9b was recently conducted. A groundwater model was developed during this reporting period to evaluate plume stability in this area of the Site and assess potential chlorobenzene migration. The modeling assessed whether the chlorobenzene concentrations currently exceeding the VRP cleanup levels will migrate beyond a designated point of exposure (POE) to be demonstrated at a point of demonstration (POD) located upgradient of the POE. The relevant Site characteristics, Conceptual Site Model (CSM), distribution of COCs, and the model development are summarized below and detailed further in the Technical Memorandum provided in Appendix F. Results of the modeling are presented in Section 3.3.

2.4.1 Conceptual Site Model

The Site hydrogeology is primarily comprised of a saprolite water table aquifer underlain by a weathered bedrock aquifer. The unconsolidated materials comprising the saprolite are characterized as reddish brown micaceous sandy silt to silty clay. As the uppermost hydrogeologic unit at the Site, the saprolite has been observed to range in thickness from approximately 35 feet (ft) to approximately 107 ft. The depth to groundwater generally ranges from approximately 20 to 25 ft at the southern end of the Site to 45 to 55 ft at the northern end of the Site. Given these groundwater depths in relation to the base of the saprolite, there are areas where the saprolite is unsaturated. In this case, the water table is generally observed within the upper portion of the underlying weathered bedrock. In areas where the water table is observed to be above the base of the saprolite, saturated conditions are on the order of a few inches to as great as 73 ft. Hydraulic conductivities within the saprolite are considered to be relatively low. Slug test results from within the saturated saprolite yielded an average hydraulic conductivity of 0.21 ft per day (ft/day).

The upper portion of the bedrock has been characterized as gray foliated phyllonite with numerous fractures that diminish with depth. The bedrock in this zone is moderately to highly weathered. The fractured and weathered zone ranges in thickness from approximately 20 ft to 40 ft. Hydraulic conductivities associated with the weathered bedrock zone range from 2.9 ft/day to 11 ft/day, with a geometric mean value of 5.2 ft/day. Groundwater is generally observed to be under confined or semi-confined conditions, with the exception of the upland areas where water table conditions may exist. Groundwater elevations within the vicinity of the Site generally ranged from 776 ft above mean sea level (amsl) to 813 ft amsl. A groundwater divide at the north end of the Crimson property appears to bisect the Site and adjacent properties, with groundwater generally flowing to the northeast and southwest. The groundwater divide results from the position of the Site within an "elbow" of the Chattahoochee River (Figure 2-3).

Based on the distribution of chlorobenzene concentrations observed in the Site monitoring wells, as well as the associated groundwater elevations, it appears that the source of the chlorobenzene is located on the northeast side of the groundwater divide in the vicinity of MW-9a/9b. The chlorobenzene plume is expected to migrate to the northeast. Groundwater flow on either side of the divide will ultimately discharge into the Chattahoochee River. The average horizontal gradient within the weathered bedrock is approximately 0.043 foot per foot (ft/ft). This relatively high horizontal gradient results from the Site's elevated upland location relative to the nearby Chattahoochee River.

When saturated conditions were observed within the saprolite, vertical gradients between the saprolite and the upper bedrock were generally observed to be downward. This is consistent with the underlying weathered bedrock's hydraulic conductivity being at least one to two orders of magnitude greater than that observed within the saprolite. Given this, Site COCs within the saprolite are expected to generally migrate vertically downward into the underlying weathered bedrock unit that serves as the primary horizontal migration pathway associated with off-Site migration.

2.4.2 Modeling Objective

The primary objective of recently performed fate and transport modeling was to evaluate plume stability and whether natural attenuation processes will result in limited downgradient migration of chlorobenzene observed on the Site. Specifically, the modeling focused on assessing whether the leading edge of the plume above VRP cleanup levels would reach a hypothetical POE located 1,000 ft downgradient of the current extent of the plume.

2.4.3 Model Development

As indicated above, the weathered bedrock unit is the primary horizontal migration pathway associated with the Site, and therefore a diagnostic level flow and transport model was developed to evaluate COC migration within this unit. A diagnostic level model refers to a model that generally represents site conditions sufficiently so that the data quality objectives (DQOs) can be evaluated. The diagnostic level model is quasi-calibrated to the extent that it reasonably matches groundwater elevations and more importantly it matches the groundwater flow direction and gradient. The development of such a model allows it to be used to evaluate the DQOs within a reasonable level of uncertainty.

As a result, a numerical model using MODFLOW and MT3D were selected to evaluate flow and transport, respectively. The diagnostic level groundwater flow model was developed using the MODFLOW 2000 computer code (Harbaugh et al., 2000). Solute transport modeling was performed using the MT3DMS version of the MT3D computer code coupled with the results of the flow model (Zheng, 1990). Development and QA/QC of this numerical model was fully integrated using the ArcGIS™ (Version 10) Geographic Information System (GIS) software (ESRI, 2011) so that model results and input data were fully compatible between current spreadsheet, database, GIS, and modeling software packages. Groundwater Vistas, version 6.0 build 11 (ESI, 2011), was used as a graphic user interface to facilitate integration of model data with GIS, as well as pre- and post-processing of the numerical model files.

2.4.4 Model Specifications

Table 2-2 presents the general specifications of the flow and transport model. Specific details and assumptions associated with the model are presented the technical memorandum in Appendix F.

Section 3

Results

This section presents and describes the results of the work conducted between January and June 2015 described in Section 2. The results of groundwater sampling (water level measurement and chemical concentration data) and modeling are discussed below.

3.1 Groundwater Elevation Data

The measured depths to water and the surveyed elevations of the monitoring wells were used to calculate the groundwater elevations. Current and historical groundwater level and elevation data are presented in Tables 3-1a and Table 3-1b, respectively. Ground surface and top of casing elevations are shown on Figure 3-1. Potentiometric maps of the shallow and bedrock aquifer groundwater surface as measured in April 2015 are presented on Figures 3-2 and 3-3, respectively.

Groundwater elevations in the wells screened in the shallow aquifer in April 2015 were generally slightly higher than levels measured in October 2014 (Table 3-1b). Higher water levels are typically observed at this Site in the spring, particularly in the shallow wells. In this case, the water levels rose an average of 0.25 ft between the October 2014 and April 2015 events, but were an average of 1.56 ft lower than in April 2014. Water levels were also higher in the upper bedrock wells in this event, an average of 0.21 ft higher than in October 2014.

Consistent with past events, the April 2015 water level data indicate that there is a groundwater divide located generally south of monitoring wells MW-9a and MW-9b. The divide results from the Site's location in a sharp bend or "elbow" in the Chattahoochee River as shown on Figure 2-3. The potentiometric surface in the shallow and upper bedrock aquifers generally slopes from southwest to northeast from the MW-9a/MW-9b area (Figures 3-2 and 3-3). This pattern has been observed consistently other than the three events when a water line break was known to have occurred in the public right-of-way along Industrial Court and two events where water levels were affected by the soil disturbance associated with the installation of the concrete valve vault adjacent to monitoring well MW-6.

Further south on the Crimson property, the potentiometric surface slopes from northeast to southwest from south of the monitoring well MW-9a/9b area toward wells SMW-1 and SMW-2.

3.2 Groundwater Chemical Concentration Data

The analytical results for the groundwater samples collected in April 2015 are summarized in Table 3-2. Current and historical concentrations are presented in Table 3-3, and Table 3-4 presents geochemical data. The tables include the date the sample was collected, the reported concentration, the method detection limit where a specific constituent was not detected, and applicable delineation (Table 3-3 only) and cleanup standards. Figures 3-4 and 3-5 illustrate all the recent detections, and Figures 3-6 and 3-7 show only the detections that exceed the VRP cleanup level. The results of the analyses are discussed below. The field data sheets from the groundwater sampling are provided in Appendix A and the current and historical purging data are tabulated in Appendix B. Copies of the analytical reports are provided in Appendix C. The laboratory stipulation letter is provided in Appendix D.

3.2.1 Organic Compounds

Concentrations at the Site are generally similar to those in previous monitoring events with a few exceptions noted in this section. Observations regarding the organic compounds detected in April 2015 are noted below.

- In the groundwater in the north parking lot:
  - Total VOC concentrations of parameters exceeding their respective detection limits in the April 2015 sample from monitoring well MW-8 (4,800 µg/L) were lower than in October 2014 (5,707 microgram per liter [µg/L]).
  - No VOCs were detected in the sample from the vertical delineation well MW-4b in April 2015.
  - The relative concentrations of specific compounds (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,-2-dichloroethene (cis-1,2-DCE), and vinyl chloride [VC]) in the north parking lot area are similar to the previous event. Site COC cis-1,2-DCE was the parameter detected in highest concentration.
- Monitoring well MW-12 is cross-gradient and slightly downgradient of the impacted sump area in the north parking lot. In the sample from this well all VOC concentrations measured were below VRP cleanup levels.
- In the sample from monitoring well 0W-72 further downgradient, concentrations of 1,2-dichloroethane (1,2-DCA), cis-1,2-DCE, PCE and TCE exceeded their VRP cleanup levels; however, all VOCs are in compliance with the cleanup levels further downgradient in the sample from well OW-74A. These constituents are delineated in OW-74A (1,2-DCA and PCE) and MW-20 (cis-1,2-DCE and TCE).
- No VOCs were detected in the sample from the sidegradient well, MW-21.

Elsewhere on the Site:

- The measured concentration of TCE in the sample from monitoring well MW-11 slightly exceeded the delineation level (5.2 µg/L vs. 5.0 µg/L), but was well below the cleanup level. Chemicals detected in the sample from MW-11 may be associated with rail activities rather than on-site activities as MW-11 is located along the former rail line. All other VOCs detected were below the VRP delineation and cleanup levels.
- On the Crimson property to the southwest, chlorobenzene concentrations in the samples from monitoring wells MW-9a and MW-9b exceed the delineation level; however, the impact is fully delineated to the northeast in monitoring wells MW-6 and MW-11, and to the southwest in well SMW-1.
- PCE concentrations in the samples from monitoring wells MW-9a and SMW-1 exceed the delineation and cleanup levels; however, these detections are fully delineated to the northeast in monitoring wells MW-6 and MW-11, and to the southwest in well SMW-1.
- No chemicals were measured above a VRP delineation or cleanup level in the sample from the southwest end of the Site in SMW-2.

3.2.2 Geochemical Parameters and Manganese

Recent and historical geochemical data are shown in Table 3-4. In general, geochemical conditions in certain wells are conducive to reductive dechlorination of VOCs; however, low organic carbon may limit microbial activity. Notable observations are discussed below:

- The oxidation-reduction potential (ORP) in samples from wells MW-4a, MW-6 and MW-12 are indicative of reducing conditions (-133.8, -34.7 and -140.4 millivolts [mv], respectively), which are conducive to reductive dechlorination of chlorinated VOCs. In contrast, the ORP in the sample from MW-8 continues to trend positive/non-reducing (27.5 mv). Thus, natural reductive dechlorination activity would be more likely to occur in MW-4a, MW-6 and MW-12 and less likely to occur in MW-8.

- Dissolved oxygen levels in samples from wells MW-4a, MW-6, MW-8, and MW-12 remain at low levels (less than 1 mg/L), which are indicative of anaerobic conditions typically associated with reductive dechlorination.
- Methane and sulfate were observed in samples from wells MW-4a, MW-6, MW-8 and MW-12 which is indicative of anaerobic conditions.
- Nitrate was not detected in any of the wells where samples were analyzed for this parameter (monitoring wells MW-4a, MW-6, MW-8, and MW-12), which could indicate that nitrate is being consumed by microorganisms responsible for anaerobic degradation processes. Nitrate levels have historically been below the detection limit.
- Ferrous iron (Fe^{2+}) was detected at a low concentration of 4.78 mg/L in the sample from well MW-12 and was not detected in samples from wells MW-4a, MW-6 and MW-8. These levels indicate minimal reduction of ferric iron to ferrous iron and therefore, iron reducing activity does not appear to be significant.
- Low total organic carbon concentrations were measured in all monitoring wells analyzed for this parameter. Organic carbon is needed to help drive and sustain microbial activity, and thus lack of sufficient carbon could limit anaerobic biological activity.
- The manganese concentration in the sample from monitoring well MW-8 was 16,100 µg/L. Manganese is not a Site COC and is not regulated under HSRA, and thus remediation of this constituent is not planned.

3.2.3 Quality Assurance/Quality Control Samples

No chemicals were detected in any of the four trip blanks or three equipment blanks. The analytical results for the duplicate samples were similar to those in the parent sample.

Thus, the QA/QC sample results indicate the reported groundwater sample results were not influenced by field or laboratory methods.

3.3 Results of Modeling Around MW-9a and MW-9b

As noted in Section 2.3, a conservative approach was used in modeling migration of the chlorobenzene plume in the vicinity of wells MW-9a and MW-9b. Chlorobenzene migration was simulated as resulting from a source in the vicinity of these wells that continues for 20 years. The more likely condition will be (and has been) that source concentrations of chlorobenzene will decline over time since the Former Olympic Manufacturing operations ceased by 1988. However, a worse case model approach of a continuing source was used to conduct a more conservative projection of plume migration.

The model scenario assumes a continuous chlorobenzene source near well MW-9b and beneath the Crimson building of 250 µg/L. Using an iterative process, a half-life of 365 days was selected to best represent the April 2015 chlorobenzene concentrations observed in monitoring wells MW-9b, MW-6, and MW-11. The modeled chlorobenzene concentrations in wells MW-9b, MW-6, and MW-11 were within approximately 10 percent of the April 2015 measured concentrations. The simulation was run forward in time for 20 years; however, the expansion of the plume reached a point of equilibrium at approximately 5 years. The simulated chlorobenzene plume, under equilibrium conditions and at a concentration exceeding the RRS of 136 µg/L, was estimated to extend approximately 125 ft downgradient of well MW-9b. The results of this simulation are presented on Figure 3-8.

In summary, based on the assumptions used in the model, and even with the conservative assumption of a continuing source, the chlorobenzene plume is projected to reach a point of equilibrium in approximately 5 years, and to only extend approximately 125 ft beyond well MW-9b. Thus, the COC plume will only extend a fraction of the way to the POE 1,000 ft away.

Section 4

Status and Future Work

Hillshire and Rathon are on track to meet the objectives stated by the EPD in their May 17, 2010 letter approving the Site application to the VRP. Specifically:

- Horizontal groundwater delineation on-site and off-site
- Vertical groundwater delineation
- Remediation, where necessary.

The current status of the Site relative to VRP delineation and cleanup criteria, near-term steps toward meeting project goals, and the project schedule are discussed below.

4.1 Delineation Status

Delineation of COCs in soil has already been achieved and discussed in previous reports. COC delineation in groundwater is discussed below. For the purposes of this section, "on-site" and "off-site" refer to on and off the Former Olympic Manufacturing property, respectively. Over the entire Site including the Crimson property, delineation has been achieved.

4.1.1 On-Site Horizontal Delineation

On-site horizontal groundwater delineation has been completed. Concentrations at monitoring well MW-11 have fluctuated around and below the delineation levels the last several years such that the extent of groundwater impact is considered to be delineated.

4.1.2 Off-Site Horizontal Delineation

Off-site horizontal delineation to the northeast and east-northeast is complete as demonstrated in the absence of any detections in monitoring wells MW-20 and MW-21. Delineation to the southwest is complete as concentrations in monitoring well SMW-1 meet all of the delineation levels.

4.1.3 Vertical Delineation

No COCs were detected in the vertical delineation well, MW-4b.

4.2 Status Relative to Cleanup Levels

Soil at the Site is in compliance with the soil cleanup levels; therefore, no additional soil sampling or remediation is planned.

The status of the Site groundwater relative to the VRP cleanup levels is presented in Table 3-2. Figures 3-6 and 3-7 illustrate where the VOC cleanup levels are met (everywhere except where noted). The status is summarized below.

To the Northeast. Concentrations in the wells in and downgradient of the former source area (wells MW-4a, MW-4b, MW-8, and OW-72) currently exceed the VRP cleanup levels for five chemicals. Further downgradient in monitoring wells OW-74A, MW-20, and MW-21, all COCs are in compliance with the cleanup levels. Concentrations in monitoring well MW-12, located between the Site and well OW-72, also meet all of the cleanup levels, possibly reflecting beneficial residual effect from the previous ISCO injections around monitoring well MW-4a.

Where concentrations in monitoring wells off of the Former Olympic Manufacturing property do not meet the numeric groundwater cleanup levels, groundwater modeling and ELUCs will be used to demonstrate compliance with the VRP cleanup requirements. The groundwater modeling presented in Hillshire and Rathon's June 2013 report indicates that the VOC concentrations in groundwater downgradient of the Site to the northeast will remain stable or contract both in mass and extent and will not reach the POE.

Environmental covenants prohibiting future use or extraction of groundwater will also be used to prevent exposure to Site contaminants in areas where the numeric cleanup levels are exceeded. As discussed in Section 2.3, ELUCs have been obtained or are in progress with owners of the following properties (identified on Figure 2-2):

- The subject property that is now owned by Airgas
- The parcels owned by Cobb County at the end of Olympic Industrial Drive and along South Atlanta Road
- The adjoining property to the northeast owned by the SPC and leased to CSXT
- The property to the northeast owned by Wesley Properties across the rail line.

As noted in Section 2, a letter from the SPC prohibiting future use of groundwater has been obtained and approved by EPD. Cobb County has agreed to provide an ELUC, although due to deed issues the groundwater use prohibition may be provided by letter instead. Also, ELUCs have been agreed to by Airgas and Wesley Properties and are expected to be executed in the near future.

To the East. Concentrations in the wells along the east side of the Site (MW-2 and MW-11) are below the VRP cleanup levels. Thus, no remediation is warranted in these areas.

To the Southwest. Where concentrations in monitoring wells on the Crimson property do not meet the numeric groundwater cleanup levels, groundwater modeling and ELUCs will be used to demonstrate compliance with the VRP cleanup requirements as follows:

- Crimson has already executed an ELUC with Hillshire and Rathon
- The groundwater modeling results presented in Section 3.3 and Appendix F of this report indicate the chlorobenzene concentrations in monitoring wells MW-9a and MW-9b will likely migrate to the northeast, with expansion of the plume ceasing after approximately 5 years when the plume extends approximately 125 ft downgradient of MW-9b. An ELUC with Cobb County or equivalent prohibition of groundwater use is being obtained for the portion of Industrial Court within the plume
- Concentrations in the most downgradient monitoring well, SMW-2, are in compliance with the Site cleanup levels.

To the West and North. Concentrations in wells along the west and north sides of the Site were shown to be below the VRP cleanup criteria in previous sampling events. Thus, no remediation is necessary in these areas.

4.3 Planned Near-Term Actions

Tasks to comply with the VRP delineation and cleanup requirements are outlined above, and specific actions to meet these objectives are summarized below:

- Pursue the remaining ELUCs and/or letters with Airgas, Wesley, and Cobb County for the properties identified in Section 4.2
- Once the ELUCs are obtained, a final sampling event will be conducted.

4.4 Schedule

A milestone schedule to complete this project is presented below. This schedule is based on the expectation that compliance with the VRP cleanup levels will be demonstrated with the modeling and institutional controls described in this summary report.

Estimated Schedule	
Action	**Expected Date**
Horizontal Delineation	Completed
Vertical Delineation	Completed
Submittal of Remediation Plan and Cost Estimate	Completed
Finalize Environmental Covenants	Early 2015
Final Semiannual Sampling Event	October 2015
Submittal of Final Compliance Status Report	December 2015

Section 5

Engineer's Services this Period

This section presents a summary of the Engineer's (BC's) work on this project since the last submittal to the EPD. Table 5-1 summarizes the hours charged and the services BC provided between December 19, 2014 and June 18, 2015.

Section 6

Limitations

This document was prepared solely for The Hillshire Brands Company and Rathon Corp. in accordance with professional standards at the time the services were performed and in accordance with the contract between Sara Lee Corporation and BC dated April 26, 2002 and subsequent amendments. This document is governed by the specific scope of work authorized by Hillshire and Rathon; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. Except for data and engineering prepared by BC, we have relied on information provided by Hillshire, Rathon, and other sources and, unless otherwise expressly indicated, have made no independent confirmation of the validity, completeness, or accuracy of such information.

CSX
RAILROAD
RIGHT OF WAY

17096200070

17096200150

17096200110

17096200130

COBB COUNTY
DEPARTMENT OF
TRANSPORTATION

MW-11

MW-2

CONCRETE WALL

MW-C

MW-B

MW-A

MW-12

RAILROAD

MW-D

MW-6

MW-9a

MW-9b

MW-8

MW-4b

MW-4a

ASPHALT

EXISTING ONE STORY WAREHOUSE

OLYMPIC INDUSTRIAL COURT

IW-4

IW-1

IW-6

IW-5

IW-2

IW-3

IW-9

IW-7

IW-10

IW-8

MW-1

MW-1R

17096200140

ASPHALT

MW-3R

MW-19

MW-5

MW-10

MW-13b

MW-13aR

ASPHALT

MW-15

ASPHALT
DRIVEWAY

LANDSCAPE AREA

MW-18

17096200220

SIDEWALK

MW-7

MW-7R

CONCRETE
APRON

17089900050

COBB COUNTY
DEPARTMENT OF
TRANSPORTATION

17096100070

OLYMPIC INDUSTRIAL DRIVE

MW-16

COBB COUNTY
DEPARTMENT OF
TRANSPORTATION

MW-14

MW-14b

MW-17

17096100090

SCALE IN FEET

0 30 60 120

NOTES:
1. ALL FEATURES SHOWN ARE BASED ON SITE SURVEYS PERFORMED BY LONG ENGINEERING, INC. IN AUGUST 2006 AND FEBRUARY 2008. BROWN AND CALDWELL HAS NOT INDEPENDENTLY VERIFIED THE SURVEY INFORMATION.
2. COBB COUNTY TAX PARCELS ARE COMPILED FOR TAX PURPOSE ONLY: DEEDS AND PLATS WERE USED WHERE AVAILABLE. NOT TO BE USED FOR TITLE PURPOSE

LEGEND

PROPERTY LINE

CHAIN LINK FENCE

COBB COUNTY TAX PARCEL BOUNDARIES

17096200150 *COBB COUNTY TAX PARCEL IDENTIFICATION NUMBER*

SURFICIAL AQUIFER MONITORING WELL

BEDROCK AQUIFER MONITORING WELL

INJECTION WELL

Jun 04, 2015 - 9:52am bsteele
P:\Sara Lee\145686\Semiannual Sampling\April 2015\Report\Figures\CAD\Figure 2-1 - Site Plan.dwg

Brown AND Caldwell

Figure 2-1

Site Plan

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia

R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\Fig 2-2 Property Requiring land covenant_rev_2_.mxd

17096100060
17096100030
17096100130
17096100120
17096700010
17096000010
17096100180
17090000230
17090000060
17090000070
17096100070
17096100090
17096200220
17089900050
17089900020
17096200140
17096200130
17096200110
17096200120
17096200070
17096200050
17096200060
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17096200030
17096200020
17096600030
17096600040
17096600020
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17096500140
17096500130
17096500110
17096500040
17096500080
17096500180
17096500120
17096500070
07000003150

Olympic Industrial Drive
CSXT Rail Line (owned by State Properties Commission)
Cobb County

Wesley Properties

Former Olympic Manufacturing Site

Crimson Three Partners (Formerly Olympic Assoc.)

MW-1
MW-2
MW-3R
MW-4a
MW-4b
MW-6
MW-7
MW-7R
MW-8
MW-9a
MW-9b
MW-10
MW-11
MW-12
MW-13b
MW-13aR
MW-14
MW-14a
MW-15
MW-16
MW-17
MW-18
MW-19
MW-20
MW-21
OW-72
OW-74A
OW-74B
OW-77A
OW-77B
SMW-1
SMW-2

N

0 100 200 400
APPROXIMATE SCALE IN FEET

LEGEND

- Existing Monitoring Wells
- Estimated Area with Groundwater Concentrations Above VRP Cleanup Levels
- 17096200150 Cobb County Tax Parcel Identification Number (PIN)

Figure 2-2

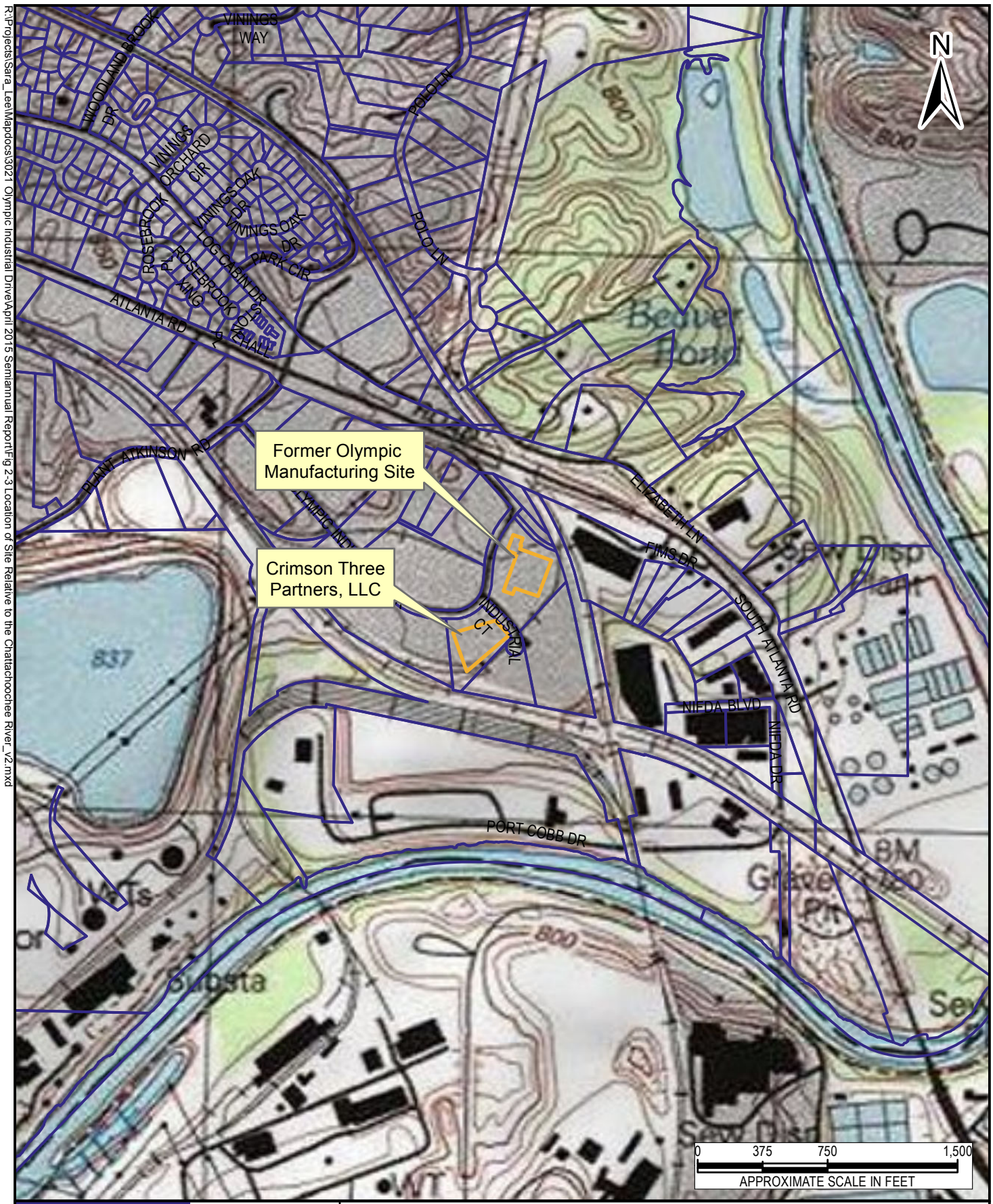
Property Requiring Land Use Covenants

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	06/30/2015
SCALE:	AS SHOWN
DRAWN BY:	GS
CHECKED BY:	PCR
PROJECT #:	145686



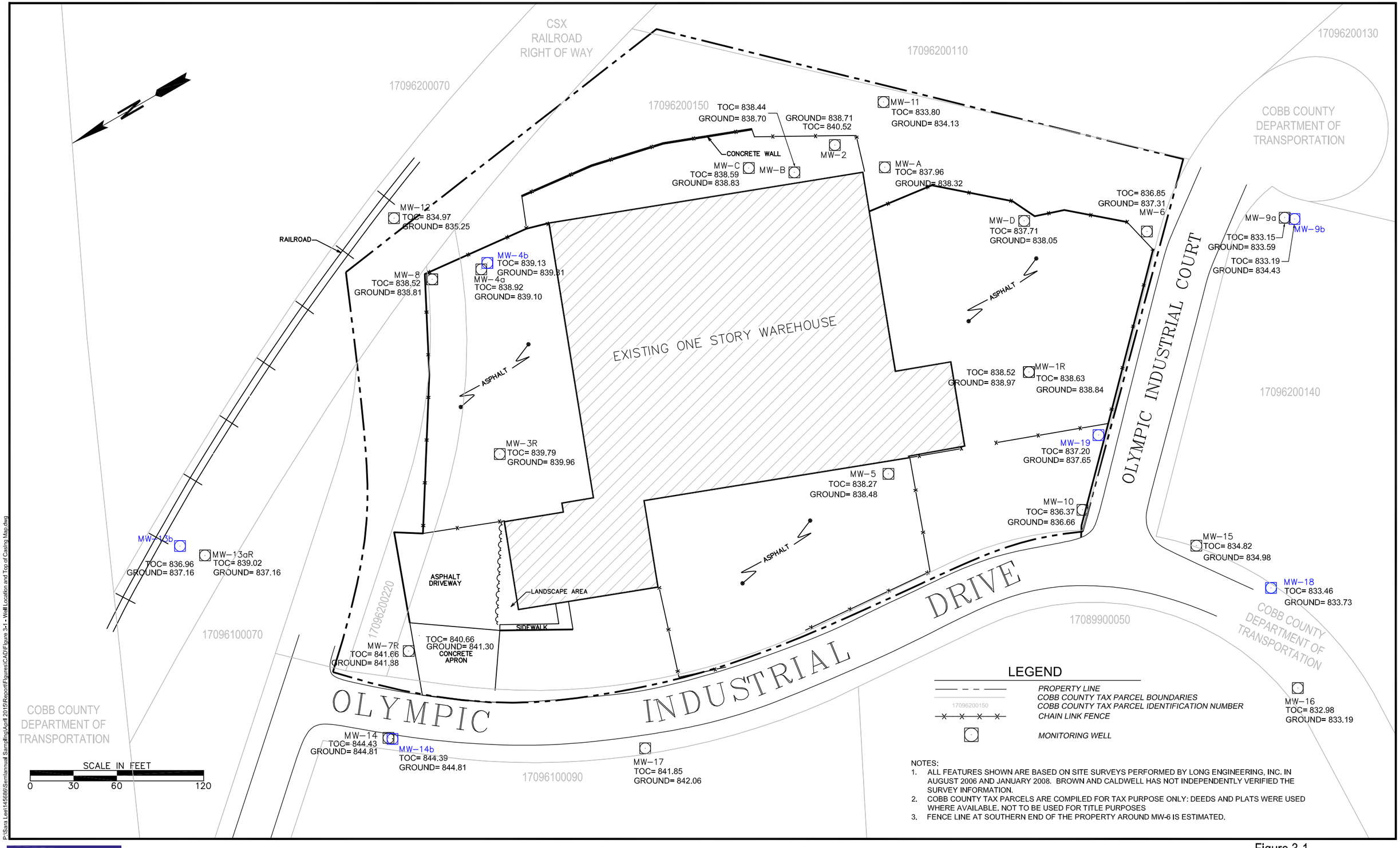
R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\Fig 2-3 Location of Site Relative to the Chattahoochee River_v2.mxd

Brown AND Caldwell

PREPARED FOR:	Former Olympic Manufacturing Site
DATE:	06/26/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	PCR
PROJECT #:	145686

Figure 2-3
Location of Site Relative to the Chattahoochee River

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia



NOTES:
1. ALL FEATURES SHOWN ARE BASED ON SITE SURVEYS PERFORMED BY LONG ENGINEERING, INC. IN AUGUST 2006 AND JANUARY 2008. BROWN AND CALDWELL HAS NOT INDEPENDENTLY VERIFIED THE SURVEY INFORMATION.
2. COBB COUNTY TAX PARCELS ARE COMPILED FOR TAX PURPOSE ONLY: DEEDS AND PLATS WERE USED WHERE AVAILABLE. NOT TO BE USED FOR TITLE PURPOSES
3. FENCE LINE AT SOUTHERN END OF THE PROPERTY AROUND MW-6 IS ESTIMATED.

Figures 2-3 and 2-4 Valve Vault Photos.jpg
Jun 04, 2015 - 11:36am bstelle
P:\Sara Lee\145680\Semiannual Sampling\April 2015\Report\Figures\CADI\Figure 3-1 - Well Location and Top of Casing Map.dwg

Figure 3-1

Well Location and Top of Casing Elevation Map

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-2- Shallow Potentiometric Map - April 2015.mxd

N

17096100030
17096100130
17096100120
17096000010
17090000130
17096100180
17090000230
17090000060
17090000070
OLYMPIC INDUSTRIAL DR
17096100070
17096600040
17096600030
17096100090
17096200070
17096600020
17089900050
17096500030
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17096200020
17096200030
17096500140
17096500130
17089900020
17096200140
17096200110
17096200120
17089900010
INDUSTRIAL CT
ELIZABETH LN
SOUTH ATLANTA RD
FIMS DR

OW-74A 782.86
OW-72 785.21
MW-13aR 791.85
MW-14 794.92
MW-7R 794.87
MW-17 800.25
MW-3R 793.28
MW-8 794.35
MW-12 795.37
MW-4a 796.69
MW-21 762.20
MW-5 810.39
MW-C 806.87
MW-B 809.22
MW-2 806.98
MW-10 814.53
MW-1R 805.49
MW-A 810.96
MW-11 810.31
MW-15 <819.72
MW-16 <795.80
MW-D 811.24
MW-6 813.51
MW-9a 813.83
SMW-2 783.08
SMW-1 797.11

Former Olympic Mfg Site
Crimson

780 775 770 765 785 790 795 800 805 810

0 50 100 200
APPROXIMATE SCALE IN FEET

Legend

- Bedrock Aquifer Monitoring Well
- Surficial Aquifer Monitoring Well
- Groundwater Contour
- Inferred Groundwater Contour
- 785.50 Groundwater Elevation
- Groundwater Flow Direction
- Cobb County Tax Parcel Boundaries
- 17096200150 Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

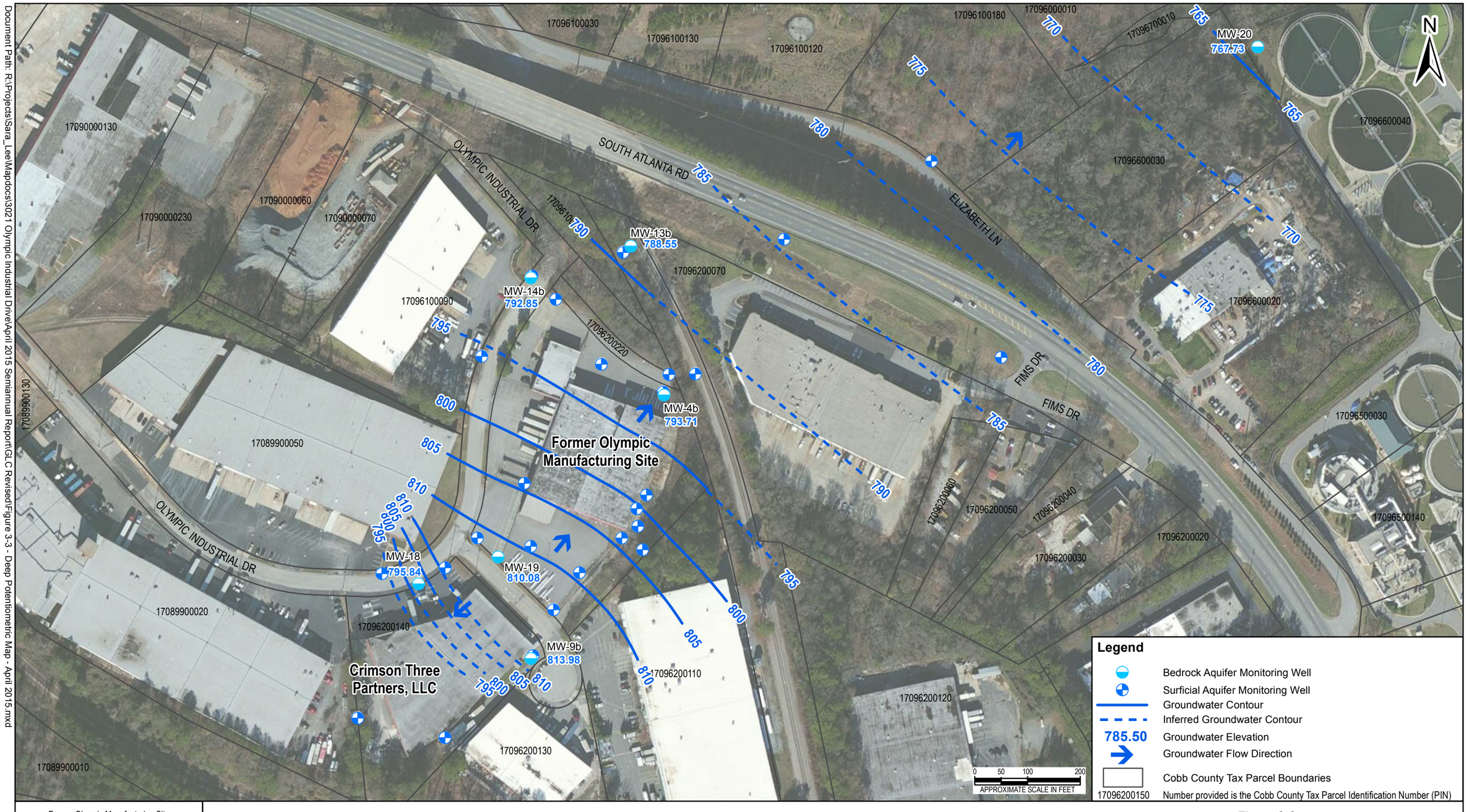
Brown AND Caldwell

SAVED DATE:	06/30/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	TCR
PROJECT #:	145686

Figure 3-2
Shallow Aquifer Potentiometric Map
April 6, 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-3 - Deep Potentiometric Map - April 2015.mxd



Legend

- Bedrock Aquifer Monitoring Well
- Surficial Aquifer Monitoring Well
- Groundwater Contour
- Inferred Groundwater Contour
- 785.50 Groundwater Elevation
- Groundwater Flow Direction
- Cobb County Tax Parcel Boundaries
- 17096200150 Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

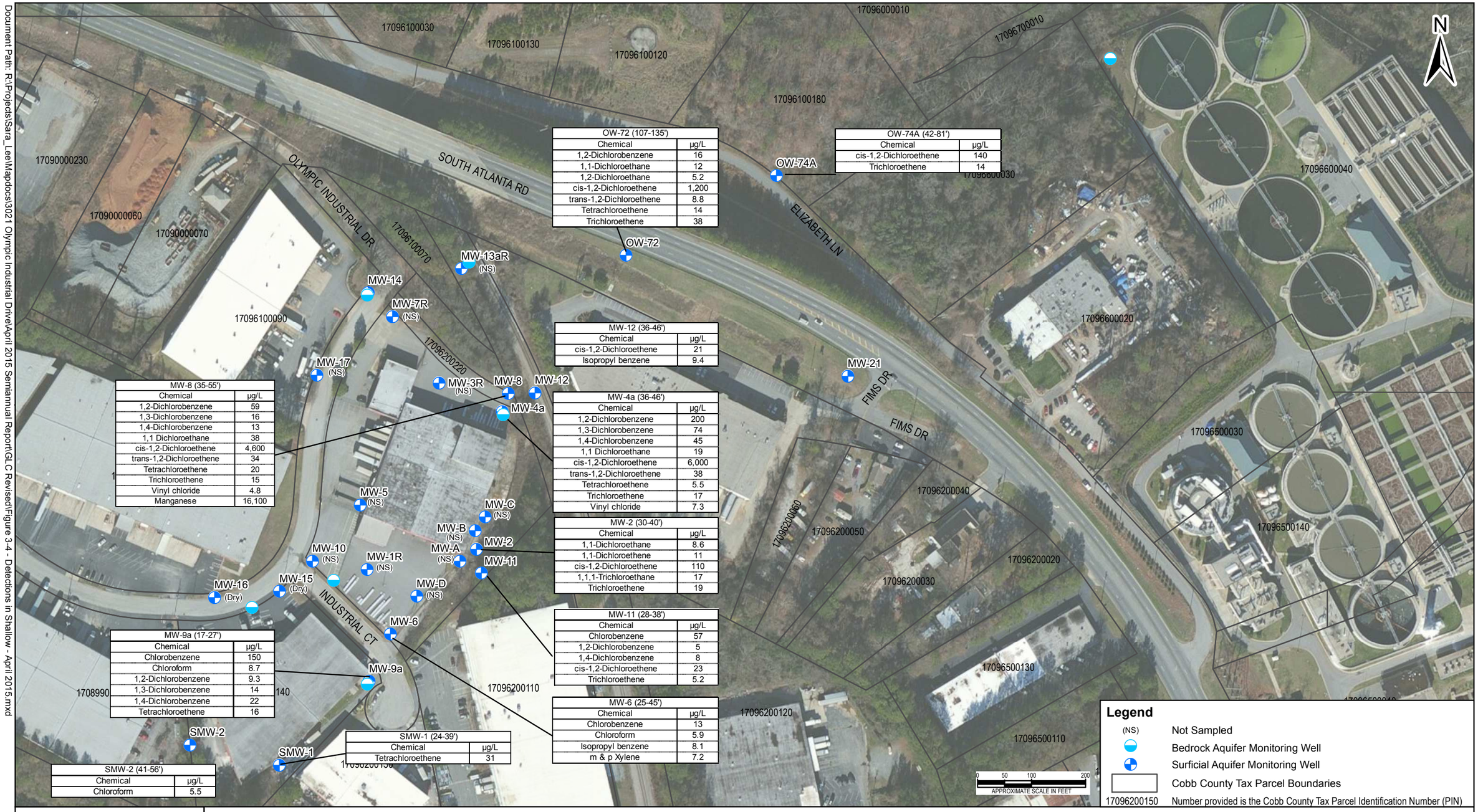
Brown AND Caldwell

SAVED DATE:	06/30/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	TCR
PROJECT #:	145686

Figure 3-3
Bedrock Aquifer Potentiometric Map
April 6, 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-4 - Detections in Shallow - April 2015.mxd



OW-72 (107-135')	
Chemical	µg/L
1,2-Dichlorobenzene	16
1,1-Dichloroethane	12
1,2-Dichloroethane	5.2
cis-1,2-Dichloroethene	1,200
trans-1,2-Dichloroethene	8.8
Tetrachloroethene	14
Trichloroethene	38

OW-74A (42-81')	
Chemical	µg/L
cis-1,2-Dichloroethene	140
Trichloroethene	14

MW-12 (36-46')	
Chemical	µg/L
cis-1,2-Dichloroethene	21
Isopropyl benzene	9.4

MW-8 (35-55')	
Chemical	µg/L
1,2-Dichlorobenzene	59
1,3-Dichlorobenzene	16
1,4-Dichlorobenzene	13
1,1 Dichloroethane	38
cis-1,2-Dichloroethene	4,600
trans-1,2-Dichloroethene	34
Tetrachloroethene	20
Trichloroethene	15
Vinyl chloride	4.8
Manganese	16,100

MW-4a (36-46')	
Chemical	µg/L
1,2-Dichlorobenzene	200
1,3-Dichlorobenzene	74
1,4-Dichlorobenzene	45
1,1 Dichloroethane	19
cis-1,2-Dichloroethene	6,000
trans-1,2-Dichloroethene	38
Tetrachloroethene	5.5
Trichloroethene	17
Vinyl chloride	7.3

MW-2 (30-40')	
Chemical	µg/L
1,1-Dichloroethane	8.6
1,1-Dichloroethene	11
cis-1,2-Dichloroethene	110
1,1,1-Trichloroethane	17
Trichloroethene	19

MW-11 (28-38')	
Chemical	µg/L
Chlorobenzene	57
1,2-Dichlorobenzene	5
1,4-Dichlorobenzene	8
cis-1,2-Dichloroethene	23
Trichloroethene	5.2

MW-6 (25-45')	
Chemical	µg/L
Chlorobenzene	13
Chloroform	5.9
Isopropyl benzene	8.1
m & p Xylene	7.2

MW-9a (17-27')	
Chemical	µg/L
Chlorobenzene	150
Chloroform	8.7
1,2-Dichlorobenzene	9.3
1,3-Dichlorobenzene	14
1,4-Dichlorobenzene	22
Tetrachloroethene	16

SMW-1 (24-39')	
Chemical	µg/L
Tetrachloroethene	31

SMW-2 (41-56')	
Chemical	µg/L
Chloroform	5.5

Legend

(NS)	Not Sampled
	Bedrock Aquifer Monitoring Well
	Surficial Aquifer Monitoring Well
	Cobb County Tax Parcel Boundaries
17096200150	Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

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SCALE:	AS SHOWN
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CHECKED BY:	TCR
PROJECT #:	145686

Figure 3-4
Groundwater Detections in Shallow Aquifer
April 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-5 - Detections in Deep- April 2015.mxd

MW-9b (53.5-58.5')	
Chemical	µg/L
Chlorobenzene	230
1,3-Dichlorobenzene	23
1,4-Dichlorobenzene	36
Ethylbenzene	31
m & p Xylene	45
o-Xylene	17

Legend

(NS)	Not Sampled
	Bedrock Aquifer Monitoring Well
	Surficial Aquifer Monitoring Well
	Cobb County Tax Parcel Boundaries
17096200150	Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	06/15/2015
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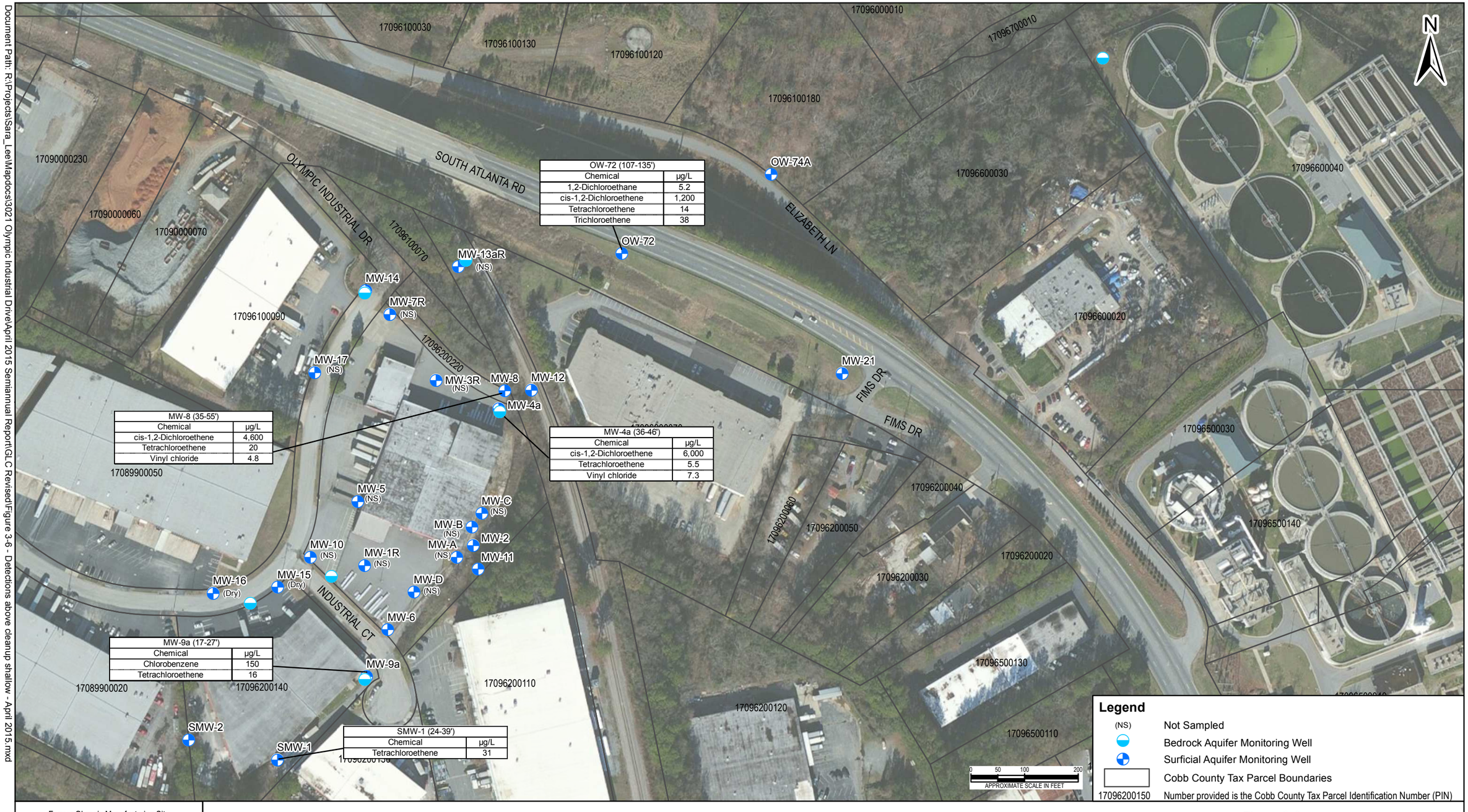
PROJECT #:	145686

Figure 3-5
Groundwater Detections in Bedrock Aquifer
April 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-6 - Detections above cleanup shallow - April 2015.mxd



Legend

(NS) Not Sampled

Bedrock Aquifer Monitoring Well

Surficial Aquifer Monitoring Well

Cobb County Tax Parcel Boundaries

17096200150 Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	06/15/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	TCR
PROJECT #:	145686

Figure 3-6
Groundwater Detections above Cleanup Levels
Shallow Aquifer, April 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Document Path: R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\GLC Revised\Figure 3-7 - Detections above cleanup Deep-April 2015.mxd

MW-9b (53.5-58.5')	
Chemical	µg/L
Chlorobenzene	230

Legend

(NS)	Not Sampled
	Bedrock Aquifer Monitoring Well
	Surficial Aquifer Monitoring Well
	Cobb County Tax Parcel Boundaries
17096200150	Number provided is the Cobb County Tax Parcel Identification Number (PIN)

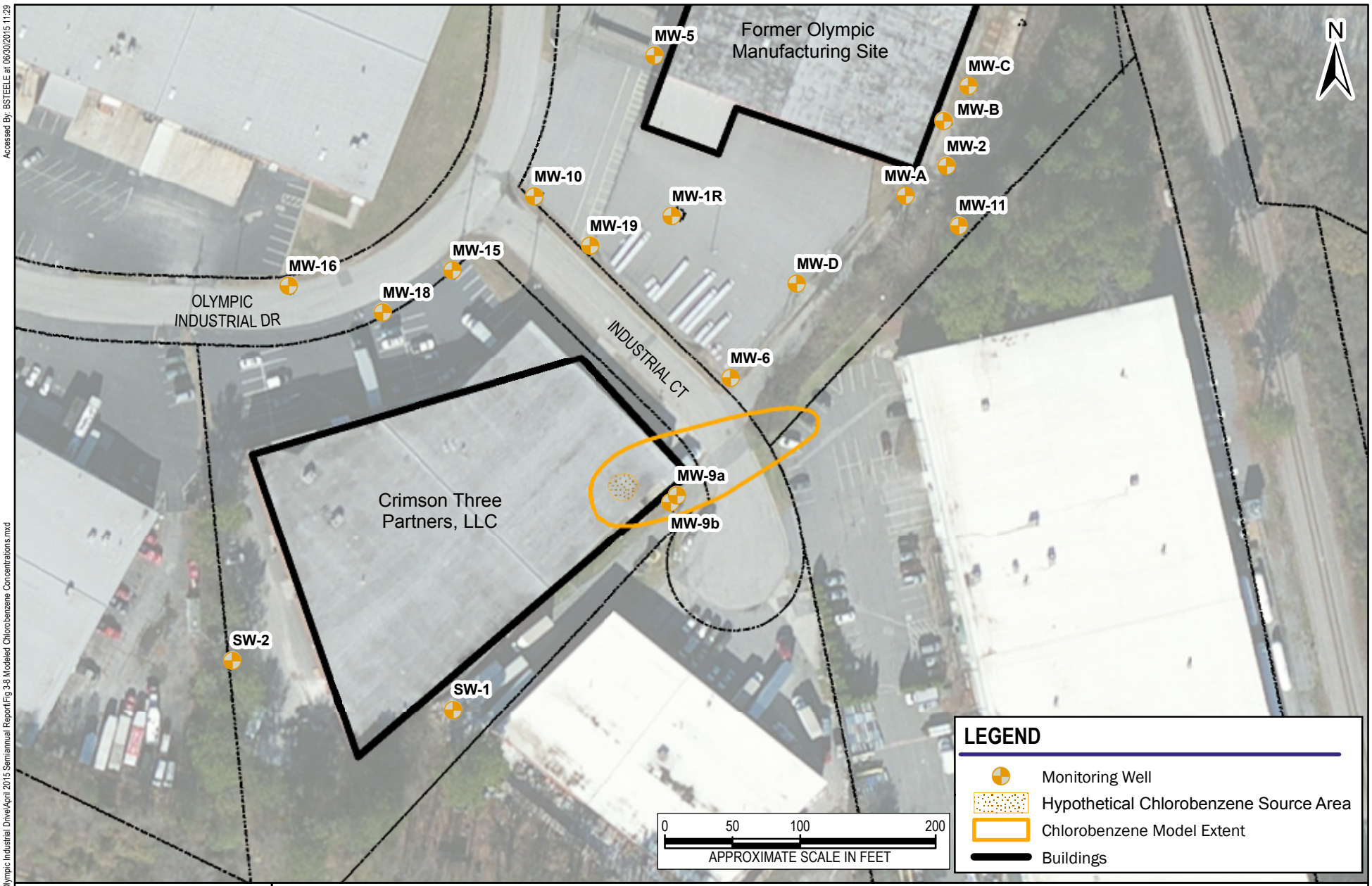
Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	06/15/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	TCR
PROJECT #:	145686

Figure 3-7
Groundwater Detections Above the Cleanup Level
Bedrock Aquifer, April 2015

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia



Prepared For:
Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	06/30/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
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PROJECT #:	145686

Figure 3-8
Modeled Maximum Extent of Chlorobenzene Plume

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Accessed By: BSTEELE at 06/30/2015 11:29
R:\Projects\Sara_Lee\Mapdocs\3021 Olympic Industrial Drive\April 2015 Semiannual Report\Fig 3-8 Modeled Chlorobenzene Concentrations.mxd

Table 2-1. Semiannual Groundwater Sampling, April 2015 Former Olympic Manufacturing Site, Smyrna, Georgia			
Monitoring Well[a]	Sampled?	Analytes	Notes
MW-1R		----	Water level only
MW-2	✓	VOCs	
MW-3R		----	Water level only
MW-4a	✓	VOCs, geochemical parameters[b]	
MW-4b	✓	VOCs	
MW-5		----	Water level only
MW-6	✓	VOCs, geochemical parameters	
MW-7R		----	Water level only
MW-8	✓	VOCs, Mn, geochemical parameters	
MW-9a	✓	VOCs	
MW-9b	✓	VOCs	
MW-10		----	Water level only
MW-11	✓	VOCs	
MW-12	✓	VOCs, geochemical parameters	
MW-13aR		----	Water level only
MW-13b		----	Water level only
MW-14		----	Water level only
MW-14b		----	Water level only
MW-15		----	Not sampled as well was dry
MW-16		----	Not sampled as well was dry
MW-17		----	Water level only
MW-18		----	Water level only
MW-19		----	Water level only
MW-20	✓	VOCs	
MW-21	✓	VOCs	
MW-A		----	Water level only
MW-B		----	Water level only
MW-C		----	Water level only
MW-D		----	Water level only
OW-72	✓	VOCs	
OW-74A	✓	VOCs	
SMW-1	✓	VOCs	
SMW-2	✓	VOCs	
IW-1 to IW-3		----	Water level only
IW-4		----	Water level only
IW-5 to IW-10		----	Water level only

[a] MW-1, MW-3, MW-4, MW-7, and MW-13a damaged by others; thus wells MW-1R, MW-3R, MW-4a, MW-4b, MW-7R, MW-13aR were installed. CCWS monitoring well OW-74B was paved over after December 2004.

[b] Geochemical parameters are total organic carbon, nitrate, sulfate, ferrous iron, and methane.

Table 2-2. Specifications of the Numerical Flow Model	
Model Characteristics	**Specifications**
Active Model Domain	Approximately 2,500 ft. by 4,750 ft.
Units	Time: Days Length: Feet
Model Grid	162 rows by 171 columns (Active cells)
Cell Size	10 feet to 100 feet
Layering – 1 Layer	Layer 1 (Weathered Bedrock Unit); Confined Aquifer
Hydraulic Parameters	Consistent with measured Site parameters
Leakance	Leakance between the saprolite and the underlying weathered bedrock was represented by recharge
MODFLOW Packages	MODFLOW 2000 (groundwater flow): Basic, Layer-Property Flow, Discretization, Output Control, Solver, General Head, Constant Head MT3DMS (solute transport)
Boundary Conditions	General head boundaries along the southwestern perimeter of the model domain for layer 1 to simulate Site groundwater elevations along said perimeter
Surface Water Interactions	Constant head cells for river head elevation
Base Flow Model Calibration Period	Steady-state model calibrated to observed heads measured in April 2015 (One Stress Period)
Transport Quasi-Calibration Period Stress Period	One transient stress period, one time step Estimated Release Period length: 7,300 days (20 years)

Table 3-1a. Historical Water Level Data
Former Olympic Manufacturing Site, Smyrna, Georgia

Well	Top of Casing Elev.,[a] ft	Depth to Water from Top of Casing, feet																																	
		Dec-98	Sep-99	Feb-00	Apr-01	Dec-01	May-02	Sep-03	Dec-03	Feb-04	Jun-04	May-05	Jul-06	Apr-07	May-07	Oct-07	Jan-08	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10[b]	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Mar-15	Apr-15
MW-1	838.52	31.74	31.14	31.63	30.6	33.89	33.69	32.76[c]	33.92	ng[d]	35.35	ng	34.85	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-1R	838.63	ni[e]	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	34.62	34.46	ng	36.74	36.17	34.61	37.12	35.19	34.02	32.83	34.37	33.78	35.86	ng	35.44	36.70	34.04	33.71	32.66	33.53	32.90	33.14
MW-2	840.52	32.18	30.18	31.75	26.31	37.48	36.81	29.02[c]	31.99	ng	33.98	ng	33.00	34.15	ng	38.42	39.26	33.53	38.81	36.14	33.39	27.83	34.81	32.49	38.35	ng	37.37	42.07	35.23	31.00	28.49	32.80	32.51	31.30
MW-3	839.98	37.20	38.00	39.60	37.62	41.86	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-3R	839.79	ni	ni	ni	ni	ni	ni	ni	ni	ni	45.85	ng	44.84	47.10	ng	49.46	51.02	50.75	51.55	52.19	49.61	42.12	44.05	47.57	49.31	ng	51.65	53.67	52.90	46.80	45.23	45.01	46.48	46.51
MW-4	841.45	37.05	37.15	38.36	35.58	Dry	Dry	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-4a	838.92	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.86	40.27	42.15	43.13	44.45	Dry	Dry	Dry	45.88	Dry	44.59	39.40	42.60	43.63	Dry	ng	Dry	Dry	Dry	42.34	40.69	42.00	42.44	42.23
MW-4b	839.13	ni	ni	ni	ni	ni	ni	ni	ni	ni	46.51	ng	44.60	46.27	ng	49.08	50.37	49.78	50.72	51.22	50.98	42.14	43.66	46.71	48.59	ng	50.53	52.56	51.00	45.11	43.14	43.90	45.51	45.42
MW-5	838.27	28.2	27.8	27.95	27.78	27.31	26.89	29.13	ng	ng	30.56	ng	29.82	30.11	ng	32.02	32.11	30.22	32.32	29.89	28.82	27.87	29.48	28.21	30.04	ng	29.13	30.95	28.38	29.23	28.87	27.92	28.00	27.88
MW-6[c]	836.85	26.59	24.38	24.29	21.24	28.12	26.62	16.45[c]	21.67	23.75	25.99	ng	25.33	26.69	ng	18.36[c]	19.70[c]	23.42	26.82	24.96	23.61	23.38	27.55	24.79	28.58	ng	27.81	30.20	23.42	24.01	20.41	24.12	23.90	23.34
MW-7	840.66	39.06	39.06	41.01	39.15	42.37	43.35	42.54	ng	ng	46.21	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-7R	841.66	ni	ni	ni	ni	ni	ni	ni	ni	ni	44.95	ng	45.65	47.07	ng	48.44	49.38	49.26	49.49	49.19	47.36	43.92	44.42	46.30	48.00	ng	49.50	50.62	49.72	47.83	46.09	45.79	46.71	46.79
MW-8	838.52	35.68	36.04	37.71	35.08	45.94	47.79	40.90	ng	ng	45.25	41.38	43.27	44.90	45.76	48.56	48.79	47.81	48.39	49.35	46.59	40.33	43.67	45.58	48.32	48.93	49.55	52.38	49.21	49.76	42.13	42.89	44.39	44.17
MW-9a[c]	833.15	ni	ni	ni	ni	21.34	19.41	18.18[c]	17.25	18.17	20.31	ng	19.77	20.29	ng	17.14[c]	17.15[d]	18.46	21.12	18.36	18.46	19.29	21.55	19.32	23.48	ng	21.34	23.90	18.70	18.65	17.38	21.17	19.38	19.32
MW-9b[c,f]	833.19	ni	ni	ni	ni	22.55	20.38	20.69[c]	31.01	31.81	34.94	ng	34.26	25.84	ng	22.05[c]	24.88[c]	23.35	23.21	19.08	18.80	19.53	22.19	19.92	23.80	ng	22.20	24.49	19.10	17.27	17.51	20.82	19.66	19.21
MW-10	836.37	ni	ni	ni	ni	24.27	24.14	24.37	24.51	ng	23.69	ng	25.10	24.39	ng	25.22	24.60	24.92	26.58	24.92	25.53	24.93	24.68	24.30	24.77	ng	23.82	26.22	24.66	25.40	24.51	23.18	24.14	21.84
MW-11	833.80	ni	ni	ni	ni	29.8	27.74	20.07[c]	23.37	ng	26.15	ng	26.10	26.32	ng	32.15[c]	31.30[c]	24.15	33.28	25.46	26.65	19.63	29.65	24.19	33.67	ng	30.58	37.52	25.50	24.91	20.23	28.28	24.89	23.49
MW-12	834.97	ni	ni	ni	ni	43.87	45.46	37.31	ng	ng	41.48	ng	39.45	41.44	43.53	44.53	44.53	42.91	45.92	43.92	41.38	36.07	40.27	41.07	44.81	ng	45.36	Dry	43.58	42.78	37.53	39.47	40.59	39.60
MW-13a	837.44	ni	ni	ni	ni	42.87	44.67	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-13aR	839.02	ni	ni	ni	ni	ni	ni	ni	ni	ni	46.88	ng	45.56	47.95	ng	51.52	52.18	51.55	52.50	53.12	50.48	43.58	45.19	48.58	50.51	ng	52.72	54.88	54.05	55.11	46.93	46.33	47.03	47.17
MW-13b[f]	836.96	ni	ni	ni	ni	48.21	48.89	43.79	ng	48.04	48.72	ng	47.42	49.04	ng	51.80	52.85	51.81	53.29	52.79	50.62	44.85	46.97	49.17	51.47	ng	52.85	55.17	53.31	55.07	47.00	47.51	47.88	48.41
MW-14	844.43	ni	ni	ni	ni	ni	43.21	45.17	ng	ng	47.6	ng	48.36	49.72	ng	Dry	Dry	Dry	Dry	Dry	Dry	46.70	47.13	48.96	50.03	ng	Dry	Dry	Dry	Dry	48.89	48.52	49.44	49.51
MW-14b	844.39	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	54.45	53.21	53.10	52.72	50.72[h]	47.41	47.73	49.48	51.18	ng	55.09	56.69	56.17	52.78	50.13	50.96	51.23	51.54
MW-15	834.82	ni	ni	ni	ni	ni	Dry	Dry	ng	ng	Dry	ng	Dry	15.02	ng	Dry	Dry	Dry	Dry	Dry	Dry	15.04	15.03	15.04	15.05	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-16	832.98	ni	ni	ni	ni	ni	29.42	Dry	ng	ng	Dry	ng	Dry	Dry	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-17	841.85	ni	ni	ni	ni	ni	ni	38.06	ng	ng	40.51	ng	42.25	43.89	ng	45.62	46.76	44.49	46.81	41.73	37.94	38.14	40.78	39.93	44.43	ng	44.92	46.87	43.16	43.54	40.32	41.97	41.78	41.60
MW-18	833.46	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	51.21	34.83	ng	34.53	33.98	33.30	33.40	48.30	29.01	29.22	31.75	33.73	31.14	ng	32.10	35.78	37.60	37.79	37.76	38.30	38.11	37.61
MW-19	837.20	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	29.68	29.25	31.11	29.45	29.24	28.92	29.49	29.06	30.09	ng	29.53	30.26	29.20	29.58	29.10	29.38	29.04	27.12
MW-20	800.83	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	33.06	33.11	32.42	33.01	29.44	33.09
MW-21	800.82	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	38.91	38.91	38.14	38.40	38.62
MW-A	837.96	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	29.3[g]	ng	ng	ng	35.52	28.98	35.28	31.60	30.51	23.85	31.10	28.78	34.74	ng	33.75	38.01	31.60	32.59	23.81	28.92	28.26	27.00
MW-B	838.44	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	36.57	ng	ng	ng	38.62	32.87	38.15	36.56	33.38	27.41	33.60	32.72	37.39	ng	37.12	41.02	35.60	30.57	28.52	31.47	31.78	31.46
MW-C	838.59	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	32.50	ng	ng	ng	38.88	33.2	38.35	36.91	33.62	28.04	34.00	33.12	37.64	ng	37.43	41.24	35.88	31.00	28.78	31.82	32.11	31.72
MW-D	837.71	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	27.44	27.42	31.34	30.62	28.65	25.18	29.09	28.51	31.29	ng	31.21	33.88	29.12	24.08	23.67	25.76	27.08	26.47
OW-72	861.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	77.04	ng	78.60	76.65	ng	79.48	80.10	78.58	80.79	76.73	77.53	73.10	75.30	76.29	79.19	ng	79.79	82.56	79.73	75.58	74.41	75.20	76.14	75.79
OW-74A	800.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	18.39	ng	17.42	17.99	ng	20.39	20.42	19.15	21.65	19.50	18.38	15.33	17.53	17.74	20.82	ng	20.61	23.70	20.12	17.66	16.41	17.30	17.17	17.14
OW-74B	799.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	20.55	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
IW-1	839.26	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	40.65	41.56	ng	41.56	43.80	42.14	45.50	42.61	41.10	37.99	41.62	41.24	44.93	ng	44.27	47.36	41.97	40.55	38.55	40.44	40.85	39.71
IW-2	839.52	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	41.45	42.31	ng	42.31	45.00	43.35	46.67	42.56	ng	ng	42.24	42.11	46.48	ng	46.46	46.72	43.56	41.30	39.50	41.23	40.80	40.64
IW-3	839.36	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	42.53	43.89	ng	43.89	47.00	46.12	47.25	47.31	44.27	39.85	42.73	42.85	46.10	ng	47.33	46.93	46.47	42.38	40.88	42.28	42.55	42.44
IW-4	838.80	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	41.17	42.19	ng	42.19	44.17	43.18	46.40	43.90	41.92	38.24	42.05	41.80	45.80	46.25	45.36	47.23	43.03	41.08	39.11	41.08	40.62	40.48
IW-5	839.17	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	42.50	43.58	ng	43.58	48.20	47.12	48.12	48.12	ng	39.82	43.06	44.26	47.70	ng	47.98	48.10	48.15	Dry	39.23	41.13	40.73	42.72
IW-6	838.36	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.00	43.61	ng	43.61	48.00	46.88	Dry	Dry	ng	39.74	43.31	45.00	47.49	ng	Dry	Dry	Dry	Dry	41.63	43.02	43.93	43.77
IW-7	838.40	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.12	44.52	ng	44.52	48.50	47.31	47.31	48.13	ng	40.14	43.46	47.37	47.64	ng	48.25	48.21	48.29	43.83	42.06	43.21	44.00	44.10
IW-8	838.49	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.03	43.39	ng	43.39	42.70	Dry	37.50	42.70	ng	40.25	43.48	Dry	Dry	ng	Dry	Dry	Dry	Dry	42.18	42.69	44.44	42.51
IW-9	838.51	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.28	44.91	ng	44.91	48.50	47.65	48.55	48.50	ng	40.24	43.66	45.61	48.15	ng	48.48	48.43	48.61	44.03	42.23	43.40	44.24	44.27
IW-10	838.46	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	43.28	44.69	ng	44.69	48.50	47.68	48.49	44.74	ng	40.39	43.72	45.54	47.85	ng	Dry	Dry	48.18	44.10	42.33	43.48	44.36	44.30
SMW-1	830.49	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	34.41	33.38
SMW-2	835.27	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	52.35	52.19

[a] Well casing elevations based upon August 2, 2006 survey by Long Engineering, Inc. for all monitoring wells, except OW-72A, OW-74A, and OW-74B (obtained from Jordon, Jones, and Goulding, June 2004), and MW-14b, MW-19, and MW-D (surveyed by Long Engineering, Inc., January 2008), and MW-20 and MW-21 (surveyed by Long Engineering in April 2013 and March 2014, respectively).

[b] Water column in wells at south end of property appeared to be under pressure when well cap removed on April 21, 2010. Thus, wells in that area regauged on April 28 and all wells regauged on April 30, 2010.

[c] Water levels in these wells may have been affected by water line leaks in September 2003, and/or October 2007 and January 2008.

[d] "ng" indicates well was not gauged in this event. MW-1, 3, 4, 7, and 13a were damaged by others. Replacement wells MW-1R, 3R, 4a, 4b, 7R, and 13aR were gauged as indicated in the table. CCWS monitoring well OW-74B was paved-over following sampling in December 2004 and thus cannot be gauged. IW-2 could not be gauged in October 2009 as well cap was stuck.

[e] "ni" indicates well not installed at this time.

[f] MW-9b and MW-13b were completed in September 2003.

[g] MW-A was gauged in September 2006.

[h] Initial reading in MW-14b in October 2009 was inconsistent with past readings; thus MW-14b was regauged on November 13, 2009.

Table 3-1b. Historical Groundwater Elevation Data
Former Olympic Manufacturing Site, Smyrna, Georgia

Well	Top of Casing Elev.,[a] ft	Groundwater Elevation, feet																																		
		Dec-98	Sep-99	Feb-00	Apr-01	Dec-01	May-02	Sep-03	Dec-03	Feb-04	Jun-04	Dec-04	May-05	Jul-06	Apr-07	May-07	Oct-07	Jan-08	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10[b]	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Mar-15	Apr-15
MW-1	838.52	807.34	807.94	807.45	808.48	805.19	805.39	806.32[d]	805.16	ng	803.17	ng	ng	803.67	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-1R	838.63	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	804.01	804.17	ng	801.89	802.46	804.02	801.51	803.44	804.61	805.80	804.26	804.85	802.77	ng	803.19	801.93	804.59	804.92	805.97	805.10	805.73	805.49
MW-2	840.52	809.09	811.09	809.52	814.96	803.79	804.46	812.25[d]	809.28	ng	806.54	ng	ng	807.52	806.37	ng	802.10	801.26	806.99	801.71	804.38	807.13	812.69	805.71	808.03	802.17	ng	803.15	798.45	805.29	809.52	812.03	807.72	808.01	809.22
MW-3	839.98	802.78	801.98	800.38	802.36	798.12	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-3R	839.79	ni	ni	ni	ni	ni	ni	ni	ni	ni	793.94	ng	ng	794.95	792.69	ng	790.33	788.77	789.04	788.24	787.60	790.18	797.67	795.74	792.22	790.48	ng	788.14	786.12	786.89	792.99	794.56	794.78	793.31	793.28
MW-4	841.45	804.40	804.30	803.09	805.87	Dry	Dry	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-4a	838.92	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.06	ng	798.65	796.77	795.79	794.47	Dry	Dry	Dry	793.04	Dry	794.33	799.52	796.32	795.29	Dry	ng	Dry	Dry	Dry	796.58	798.23	796.92	796.48	796.69
MW-4b	839.13	ni	ni	ni	ni	ni	ni	ni	ni	ni	792.62	ng	ng	794.53	792.86	ng	790.05	788.76	789.35	788.41	787.91	788.15	796.99	795.47	792.42	790.54	ng	788.60	786.57	788.13	794.02	795.99	795.23	793.62	793.71
MW-5	838.27	811.01	811.41	811.26	811.43	811.9	812.32	810.08	ng	ng	807.71	ng	ng	808.45	808.16	ng	806.25	806.16	808.05	805.95	808.38	809.45	810.40	808.79	810.06	808.23	ng	809.14	807.32	809.89	809.04	809.40	810.35	810.27	810.39
MW-6	836.85	810.68	812.89	812.98	816.03	809.15	810.65	820.82[c]	815.60	813.52	810.86	ng	ng	811.52	810.16	ng	818.49[c]	817.15[c]	813.43	810.03	811.89	813.24	813.47	809.30	812.06	808.27	ng	809.04	806.65	813.43	812.84	816.44	812.73	812.95	813.51
MW-7	840.66	802.02	802.02	800.07	801.93	798.71	797.73	798.54	ng	ng	794.45	ng	ng	ng	ng	ng		ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-7R	841.66	ni	ni	ni	ni	ni	ni	ni	ni	ni	796.71	ng	ng	796.01	794.59	ng	793.22	792.28	792.40	792.17	792.47	794.30	797.74	797.24	795.36	793.66	ng	792.16	791.04	791.94	793.83	795.57	795.87	794.95	794.87
MW-8	838.52	803.28	802.92	801.25	803.88	793.02	791.17	798.06	ng	ng	793.27	ng	797.14	795.25	793.62	792.76	789.96	789.73	790.71	790.13	789.17	791.93	798.19	794.85	792.94	790.20	789.59	788.97	786.14	789.31	788.76	796.39	795.63	794.13	794.35
MW-9a	833.15	ni	ni	ni	ni	812.39	814.32	815.55[c]	816.48	815.56	812.84	ng	ng	813.38	812.86	ng	816.01[c]	816.00[c]	814.69	812.03	814.79	814.69	813.86	811.60	813.83	809.67	ng	811.81	809.25	814.45	814.50	815.77	811.98	813.77	813.83
MW-9b	833.19	ni	ni	ni	ni	810.97	813.14	812.83[c]	802.51	801.38	798.25	ng	ng	798.93	807.35	ng	811.14[c]	808.31[c]	809.84	809.98	814.11	814.39	813.66	811.00	813.27	809.39	ng	810.99	808.70	814.09	815.92	815.68	812.37	813.53	813.98
MW-10	836.37	ni	ni	ni	ni	812.74	812.87	812.64	812.50	ng	812.68	ng	ng	811.27	811.98	ng	811.15	811.77	811.45	809.79	811.45	810.84	811.44	811.69	812.07	811.60	ng	812.55	810.15	811.71	810.97	811.86	813.19	812.23	814.53
MW-11	833.80	ni	ni	ni	ni	804.61	806.67	814.34[c]	811.04	ng	807.65	ng	ng	807.70	807.48	ng	801.65[c]	802.50[c]	809.65	800.52	808.34	807.15	814.17	804.15	809.61	800.13	ng	803.22	796.28	808.30	808.89	813.57	805.52	808.91	810.31
MW-12	834.97	ni	ni	ni	ni	791.77	790.18	798.33	ng	ng	793.49	ng	ng	795.52	793.53	791.44	790.44	790.44	792.06	789.05	791.05	793.59	798.90	794.70	793.90	790.16	ng	789.61	Dry	791.39	792.19	797.44	795.50	794.38	795.37
MW-13a	837.44	ni	ni	ni	ni	794.57	792.77	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-13aR	839.02	ni	ni	ni	ni	ni	ni	ni	ni	ni	792.14	ng	ng	793.46	791.07	ng	787.50	786.84	787.47	786.52	785.90	788.54	795.44	793.83	790.44	788.51	ng	786.30	784.14	784.97	783.91	792.09	792.69	791.99	791.85
MW-13b	836.96	ni	ni	ni	ni	788.93	788.25	793.35	ng	788.92	788.24	ng	ng	789.54	787.92	ng	785.16	784.11	785.15	783.67	784.17	786.34	792.11	789.99	787.79	785.49	ng	784.11	781.79	783.65	781.89	789.96	789.45	789.08	788.55
MW-14	844.43	ni	ni	ni	ni	ni	801.87	799.91	ng	ng	796.83	ng	ng	796.07	794.71	ng	Dry	Dry	Dry	Dry	Dry	Dry	797.73	797.30	795.47	794.40	ng	Dry	Dry	Dry	Dry	795.54	795.91	794.99	794.92
MW-14b	844.39	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	789.94	791.18	791.29	791.67	793.67	796.98	796.66	794.91	793.21	ng	789.30	787.70	788.22	791.61	794.26	793.43	793.16	792.85
MW-15	834.82	ni	ni	ni	ni	ni	Dry	Dry	ng	ng	Dry	ng	ng	Dry	819.80	ng	Dry	Dry	Dry	Dry	Dry	Dry	819.78	819.79	819.78	819.77	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-16	832.98	ni	ni	ni	ni	ni	804.12	Dry	ng	ng	Dry	ng	ng	Dry	Dry	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	ng	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
MW-17	841.85	ni	ni	ni	ni	ni	ni	804.44	ng	ng	801.34	ng	ng	799.60	797.96	ng	796.23	795.09	797.36	795.04	800.12	803.91	803.71	801.07	801.92	797.42	ng	796.93	794.98	798.69	798.31	801.53	799.88	800.07	800.25
MW-18	833.46	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	782.25	798.63	ng	798.93	799.48	800.16	800.06	785.16	804.45	804.24	801.71	799.73	802.32	ng	801.36	797.68	795.86	795.67	795.70	795.16	795.35	795.85
MW-19	837.20	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	807.52	807.95	806.09	807.75	807.96	808.28	807.71	808.14	807.11	ng	807.67	806.94	808.00	807.62	808.10	807.82	808.16	810.08
MW-20	800.83	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	767.77	767.72	768.41	767.82	771.39	767.74
MW-21	800.82	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	761.91	762.68	762.42	762.20
MW-A	837.96	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	808.66	ng	ng	ng	802.44	808.98	802.68	806.36	807.45	814.11	806.86	809.18	803.22	ng	804.21	799.95	806.36	805.37	814.15	809.04	809.70	810.96
MW-B	838.44	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	801.87	ng	ng	ng	799.82	805.57	800.29	801.88	805.06	811.03	804.84	805.72	801.05	ng	801.32	797.42	802.84	807.87	809.92	806.97	806.66	806.98
MW-C	838.59	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	806.09	ng	ng	ng	799.71	805.39	800.24	801.68	804.97	810.55	804.59	805.47	800.95	ng	801.16	797.35	802.71	807.59	809.81	806.77	806.48	806.87
MW-D	837.71	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	810.27	810.29	806.37	807.09	809.06	812.53	808.62	809.20	806.42	ng	806.50	803.83	808.59	813.63	814.04	811.95	810.63	811.24
OW-72	861.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	783.96	784.14	787.18	782.40	784.35	ng	781.52	780.90	782.42	780.21	784.27	783.47	787.90	785.70	784.71	781.81	ng	781.21	778.44	781.27	785.42	786.59	785.80	784.86	785.21
OW-74A	800.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	781.61	782.41	784.82	782.58	782.01	ng	779.61	779.58	780.85	778.35	780.50	781.62	784.67	782.47	782.26	779.18	ng	779.39	776.30	779.88	782.34	783.59	782.70	782.83	782.86
OW-72B	799.00	ng	ng	ng	ng	ng	ng	ng	ng	ng	778.45	779.49	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
IW-1	839.26	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	798.61	797.70	ng	797.70	795.46	797.12	793.76	796.65	798.16	801.27	797.64	798.02	794.33	ng	794.99	791.90	797.29	798.71	800.71	798.82	798.41	799.55
IW-2	839.52	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	798.07	797.21	ng	797.21	794.52	796.17	792.85	796.96	ng	ng	797.28	797.41	793.04	ng	793.06	792.80	795.96	798.22	800.02	798.29	798.72	798.88
IW-3	839.36	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	796.83	795.47	ng	795.47	792.36	793.24	792.11	792.05	795.09	799.51	796.63	796.51	793.26	ng	792.03	792.43	792.89	796.98	798.48	797.08	796.81	796.92
IW-4	838.80	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	797.63	796.61	ng	796.61	794.63	795.62	792.40	794.90	796.88	800.56	796.75	797.00	793.00	792.55	793.44	791.57	795.77	797.72	799.69	797.72	798.18	798.32
IW-5	839.17	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	796.67	795.59	ng	795.59	790.97	792.05	791.05	791.05	ng	799.35	796.11	794.91	791.47	ng	791.19	791.07	791.02	Dry	799.94	798.04	798.44	796.45
IW-6	838.36	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.36	794.75	ng	794.75	790.36	791.48	Dry	Dry	ng	798.62	795.05	793.36	790.87	ng	Dry	Dry	Dry	Dry	796.73	795.34	794.43	794.59
IW-7	838.40	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.28	793.88	ng	793.88	789.90	791.09	791.09	790.27	ng	798.26	794.94	791.03	790.76	ng	790.15	790.19	790.11	794.57	796.34	795.19	794.40	794.30
IW-8	838.49	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.46	795.10	ng	795.10	795.79	Dry	800.99	795.79	ng	798.24	795.01	Dry	Dry	ng	Dry	Dry	Dry	Dry	796.31	795.80	794.05	795.98
IW-9	838.51	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.23	793.60	ng	793.60	790.01	790.86	789.96	790.01	ng	798.27	794.85	792.90	790.36	ng	790.03	790.08	789.90	794.48	796.28	795.11	794.27	794.24
IW-10	838.46	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	795.18	793.77	ng	793.77	789.96	790.78	789.97	793.72	ng	798.07	794.74	792.92	790.61	ng	Dry	Dry	790.28	794.36	796.13	794.98	794.10	794.16
SMW-1	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	796.08	797.11
SMW-2	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	782.92	783.08

[a] Well casing elevations based upon August 2, 2006 survey by Long Engineering, Inc. for all monitoring wells, except OW-72A, OW-74A, and OW-74B (obtained from Jordon, Jones, and Goulding, June 2004), and MW-14b, MW-19, and MW-D (surveyed by Long Engineering, Inc., January 2008), and MW-20 and MW-21 (surveyed by Long Engineering on April 2013 and March 2014 resepectively).

[b] Water column in wells at south end of property appeared to be under pressure when well cap removed on April 21, 2010. Thus, wells in that area regauged on April 28 and all wells regauged on April 30, 2010.

[c] Water levels in these wells may have been affected by water line leaks in September 2003, and/or October 2007 and January 2008.

[d] "ng" indicates well was not gauged in this event. MW-1, 3, 4, 7, and 13a were damaged by others. Replacement wells MW-1R, 3R, 4a, 4b, 7R, and 13aR were gauged as indicated in the table. CCWS monitoring well OW-74B was paved-over following sampling in December 2004 and thus cannot be gauged. IW-2 could not be gauged in October 2009 as well cap was stuck.

[e] "ni" indicates well not installed at this time.

[f] MW-9b and MW-13b were completed in September 2003.

Table 3-2. Analytical Detections for April 2015 Groundwater Samples
Former Olympic Manufacturing Site, Smyrna, Georgia

Constituent	Concentration (micrograms per liter)																						
	MW-2	MW-4a	MW-4b	MW-6	MW-8	MW-9a	MW-9b	MW-11	MW-12	MW-15	MW-16	MW-20	MW-21	OW-72	OW-74A	SMW-1	SMW-2	15096-EB	15097-EB	15098-EB	MW-30 (MW-8 dup)	MW-31 (MW-9a dup)	VRP Delineation Level	VRP Cleanup Level
Screened Interval, bgs	30 to 40	36 to 46	96 to 101	25 to 45	35 to 55	17 to 27	53.5-58.5	28 to 38	36 to 46	5 to 15	27 to 37	33 to 43	47 to 57	107 to 135	42 to 81	24 to 39	41 to 56							
Sampling Date	4/8/15	4/9/15	4/6/15	4/6/15	4/8/15	4/8/15	4/7/15	4/6/15	4/7/15	ns[a]	ns[a]	4/6/15	4/6/15	4/7/15	4/7/15	4/8/15	4/7/15	4/6/15	4/7/15	4/8/15	4/8/15	4/8/15		
Volatile Organics, Method 8260B																								
Chlorobenzene	< 5.0	< 5.0	< 5.0	**13**	< 5.0	**150**	**230**	**57**	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**150**	100	136
Chloroform	< 5.0	< 5.0	< 5.0	**5.9**	< 5.0	**8.7**	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**5.5**	< 5.0	< 5.0	< 5.0	< 5.0	**8.6**	80	80
1,2-Dichlorobenzene	< 5.0	**200**	< 5.0	< 5.0	**59**	**9.3**	< 5.0	**5.0**	< 5.0			< 5.0	< 5.0	**16**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**58**	**9.3**	600	600
1,3-Dichlorobenzene	< 5.0	**74**	< 5.0	< 5.0	**16**	**14**	**23**	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**16**	**15**	600	600
1,4-Dichlorobenzene	< 5.0	**45**	< 5.0	< 5.0	**13**	**22**	**36**	**8.0**	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**12**	**23**	75	75
1,1-Dichloroethane	**8.6**	**19**	< 5.0	< 5.0	**38**	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	**12**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**38**	< 5.0	4,000	4,000
1,2-Dichloroethane	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	**5.2**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	5
1,1-Dichloroethene	**11**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7	524
cis-1,2-Dichloroethene	**110**	**6,000**	< 5.0	< 5.0	**4,600**	< 5.0	< 5.0	**23**	**21**			< 5.0	< 5.0	**1,200**	**140**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**4,700**	< 5.0	70	1,020
trans-1,2-Dichloroethene	< 5.0	**38**	< 5.0	< 5.0	**34**	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	**8.8**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**35**	< 5.0	100	161
Ethylbenzene	< 5.0	< 5.0	< 5.0	**8.1**	< 5.0	< 5.0	**31**	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	700	700
Isopropyl benzene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**9.4**			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	207
Tetrachloroethene	< 5.0	**5.5**	< 5.0	< 5.0	**20**	**16**	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	**14**	< 5.0	**31**	< 5.0	< 5.0	< 5.0	< 5.0	**18**	**16**	5	5
1,1,1-Trichloroethane	**17**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	200	200
Trichloroethene	**19**	**17**	< 5.0	< 5.0	**15**	< 5.0	< 5.0	**5.2**	< 5.0			< 5.0	< 5.0	**38**	**14**	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**14**	< 5.0	5	35
Vinyl Chloride	< 2.0	**7.3**	< 2.0	< 2.0	**4.8**	< 2.0	< 2.0	< 2.0	< 2.0			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	**5.3**	< 2.0	2	3.3
m & p Xylene	< 5.0	< 5.0	< 5.0	**7.2**	< 5.0	< 5.0	**45**	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	ne[c]	ne
o-Xylene	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	**17**	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	ne	ne
Total VOCs Detected	**166**	**6,406**	< 5.0	**34**	**4,800**	**220**	**382**	**98**	**30**	ns	ns	< 5.0	< 5.0	**1,294**	**154**	**31**	**5.5**	< 5.0	< 5.0	< 5.0	**4,896**	**222**		
Metals, Method 6010B																								
Manganese	na[b]	na	na	na	**16,100**	na	na	na	na	ns	ns	na	na	na	na	na	na	na	na	na	**16,100**	na	ne[c]	ne

[a] "ns" indicates sample not collected as well was dry (MW-15, MW-16).

[b] "na" indicates sample not analyzed for that parameter.

[c] "ne" indicates no standard established as parameter is not regulated under HSRA.

BOLD = Analytical detection above VRP cleanup level.

= Exceeds VRP delineation and cleanup levels for groundwater.

= Exceeds VRP delineation level for groundwater.

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-1 31 to 41 ft bg												MW-1R 31 to 41 ft bg													MW-2 30 to 40 ft bg								
				May-88	Oct-88	Jun-05	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	May-88	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01
Volatile Organics, Method 8260																																				
Acetone	4,000	nc[c]	nc	na[b]	na	< 2.6	< 100	< 10	na	< 10	< 100	< 5	< 100	< 20	< 20	< 20	< 50	< 20	< 50	320	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	< 2.6	< 100	< 10	na	< 100	< 100	< 5
Benzene	5	4.4	8.7	< 5.0	< 10	< 0.3	< 2	0.29	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	0.4 E	< 2	0.48	< 5	< 5	< 5	< 5
Bromodichloromethane	100	nc	nc	nr[a]	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5
2-Butanone	2,000	nc	nc	na	na	< 12	< 100	< 10	na	< 100	< 100	< 10	< 100	17	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10
n-Butylbenzene	5	626	4,088	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na					na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na
sec-Butylbenzene	5	626	4,088	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na					na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na
Carbon disulfide	4,000	nc	nc	na	na	na	< 10	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 10	< 5	na	< 5	< 5	< 5
Carbon Tetrachloride	5	4.9	10																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Chlorobenzene	100	27	136	< 5.0	< 10	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.60	< 10	3.4	< 5	< 5	< 5	< 5
Chloroethane	10	nc	nc	< 10	< 20	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5
Chloroform	100	nc	nc	15	< 10	< 0.7	< 2	0.2	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6	4.3 Jc	1.4 E	< 2	0.78	< 5	< 5	< 5	< 5
Chloromethane																							< 10	< 10	< 10	< 10	< 10	< 10	< 10									
Cyclohexane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,2-Dibromo-3-chloropropane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,2-Dibromoethane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Dibromochloromethane	100	nc	nc	< 5.0	< 10	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20	< 5.0	< 0.6	< 10	< 5.0	< 5.0	< 5.0	< 5	< 5
1,2-Dichlorobenzene	600	nc	nc	< 5.0	< 10	na	< 10	NAV[d]	5	8	7	na	9	< 5	11	8.2	7.6	11	< 5.0	7.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	19	NAV	4 J	< 5	7	na
1,3-Dichlorobenzene	600	nc	nc	< 5.0	< 10	na	< 10	NAV	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na
1,4-Dichlorobenzene	75	35	73	< 5.0	< 10	na	< 10	NAV	< 5.0	< 5.0	< 5.0	na	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	< 10	NAV	< 5.0	< 5.0	< 5.0	na
Dichlorodifluoromethane																							< 10	< 10	< 10	< 10	< 10	< 10	< 10									
1,1-Dichloroethane	4,000	nc	nc	5.0	20	2.3 Ei	< 2	< 0.15	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	190	150	91	110	46	19	15	15	< 5
1,2-Dichloroethane	5	1.6	2.9	< 5.0	< 10	< 0.5	< 2	< 0.12	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.5	< 2	< 0.12	< 5	< 5	< 5	16
1,1-Dichloroethene	7	103	524	230	< 10	2.4 E	< 2	< 0.48	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	18	110	63	58	24	18	12	13	14
cis-1,2-Dichloroethene	70	156	1,020	na	na	na	27	na	14	19	10	na	5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	320	na	101	101	117	na
trans-1,2-Dichloroethene	100	32	161	na	350	na	< 2	< 5	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	7.2	na	12	28	< 5	< 5	5	na
Total 1,2-Dichloroethene[h]	105	192	1,160	na	350	na	29	<5	19	24	15	9.2	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	7.2	180	332	28	106	106	122	55
1,2-Dichloropropane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
cis-1,3-Dichloropropene																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
trans-1,3-Dichloropropene																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Ethylbenzene	700	nc	nc	< 5.0	< 10	< 1.0	< 2	< 0.34	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 2	< 0.34	< 5	< 5	< 5	< 5
Freon-113																							< 10	< 10	< 10	< 10	< 10	< 10	< 10									
2-Hexanone																							< 10	< 10	< 10	< 10	< 10	< 10	< 10									
Isopropylbenzene	5	207	nc	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 10	na	< 5	< 5	< 5	na
p- Isopropyl toluene	5	200	1,010	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na					na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na
Methyl acetate																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Methyl tert-butyl ether																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Methylcyclohexane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Methylene chloride	5	nc	nc	< 5.0	13	< 2.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	9.2	12	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone																							< 10	< 10	< 10	< 10	< 10	< 10	< 10									
Naphthalene	20	nc	nc	na	na	na	< 10	NAV	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	NAV	< 5	< 5	< 5	na
Styrene	100	nc	nc	na	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 0.4	< 25	< 0.13	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane																							< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
Tetrachloroethene	5	1.3	3.9	36	51	43	17	13	13	12	8	19	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	88	88	160	120	46	34	28	32	16
Toluene	1,000	nc	nc	< 5.0	< 10	< 0.9	< 2	0.56	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.9	< 2	0.78	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	70	nc	nc																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0									
1,1,1-Trichloroethane	200	nc	nc	< 5.0	28	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	210	210	60	130	37	28	20	26	38
1,1,2-Trichloroethane	5	nc	nc	< 5.0	< 10	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5
Trichloroethene	5	18	35	44	58	37	16	11	8	6	< 5	5.5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	19	8.3	100	200	156	81	63	81	65
Trichlorofluoromethane	2,000	nc	nc	< 10	< 10	na	< 10	< 0.22	< 5	< 5	< 5	na	6	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na
1,2,4-Trimethylbenzene				na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	< 5	< 5	< 5					na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na
1,3,5-Trimethylbenzene				na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	< 5	< 5	< 5					na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na
Vinyl Chloride	2	1.1	3.3	< 10	< 20	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 10	7.2	< 10	< 0.61	< 2	< 2	< 2	< 5
m&p-Xylene	nc	nc	nc	na	na	na	< 5	na	< 5	< 5	< 5	na	< 10	< 5	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<5.0	na	na	na	< 5	na	< 5	< 5	< 5	na
o-Xylene	nc	nc	nc	na	na	na	< 5	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 5	na	< 5	< 5	< 5	na
Total Xylene	10,000	nc	nc	na	na	< 0.2	< 5	1.1	< 5	< 5	< 5	< 5	< 15	< 5	<10	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	na	na	na	< 5	0.59	< 5	< 5	< 5	< 5
Semi-Volatile Organics, Method 8270				na	na	na						na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na							na
1,2-Dichlorobenzene	600	nc	nc				< 10	< 10	< 10	NASV[f]	NASV																						< 10	14	< 10	NASV	NASV	
1,3-Dichlorobenzene	600	nc	nc				< 10	< 10	< 10	NASV	NASV																						< 10	< 10	< 10	NASV	NASV	
1,4-Dichlorobenzene	75	nc	nc				< 10	< 10	< 10	NASV	NASV																						< 10	< 10	< 10	NASV	NASV	
2,4-Dimethylphenol	700	nc	nc				< 10	< 10	< 10	< 10	< 10																						< 10	< 10	< 10	< 10	< 10	
Bis(2-Ethylhexyl)phthalate	6	nc	nc				< 10	< 10	< 10	< 10	< 10																						< 10	< 10	< 10	< 10	< 10	
2-Methylnaphthalene							< 10	< 10	< 10	< 10	< 10																						< 10	< 10	< 10	< 10	< 10	
2-Methylphenol (o-cresol)	10	nc	nc				< 10	na	< 10	< 10	< 10																						< 10	na	< 10	< 10	< 10	
4-Methylphenol (m&p-cresol)	10	nc	nc				< 10	na	< 10	< 10	< 10																						< 10	na	< 10	< 10	< 10	
Cresol (o,m,p)	10	nc	nc				< 20	< 10	< 20	< 20	< 20																						< 20	< 10	< 20	< 20	< 20	
Naphthalene	20	nc	nc				< 10	< 10	< 10	< 10	< 10																						< 10	< 10	< 10	< 10	< 10	
Metals, Method 6010B/7470A				na	na																na		na	na	na	na	na	na	na	na					na			
Barium	2,000	nc	nc			< 2.0	10	< 200	na	81	31	< 20	< 30	< 20	< 20	25.8	< 20	395	na	na		na										< 2	280	220		196	208	145
Cadmium	5	7.8	51			< 4.0	na	na	na	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	na	na		na										< 4	na	na		< 5	5	< 10
Chromium	100	47	310			< 3.0	< 10	na	na	17	< 10	< 10	25	< 10	44.7	14.5	< 10	1,320	3,810	< 10		na										< 3	< 10	na		< 10	< 10	< 10
Copper	1,300	630	4,090			na	30	< 25	na	53	40	< 10	67	14	28.6	< 10	< 10	158	na	na		na										na	< 20	50		< 20	< 20	< 10
Lead	15	15	15			< 19	< 25	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15.4	< 10	< 10		na										< 19	< 25	na		< 10	< 10	< 10
Manganese	ne	ne	ne			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		na										na	na	na		na	na	na
Nickel	100	310	2,040			na	140	110	na	210	179	124	136	75.9	164	97	100.0	1120	na	na		47.3										na	80	60		57	223	47
Zinc	2,000	4,700	nc			na	50	30	na	58	< 20	23.3	42	< 20	21	20.5	< 20	130	na	na		na										na	30	120		30	35	< 20

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-2 30 to 40 ft bg																				MW-3 35 to 45 ft bg									
	Concentration, ug/L																																
				May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	May-88	Oct-88	Jun-05	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03
Volatile Organics, Method 8260																																ns[e]	ns
Acetone	4,000	nc[d]	nc	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	< 2.6	< 100	< 10	na	< 100	< 100	< 5		
Benzene	5	4.4	8.7	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.3	< 2	< 0.20	< 5	< 5	< 5	< 5		
Bromodichloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5		
2-Butanone	2,000	nc	nc	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10		
n-Butylbenzene	5	626	4,088	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na		
sec- Butylbenzene	5	626	4,088	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na		
Carbon disulfide	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 10	< 5	na	< 5	< 5	< 5		
Carbon Tetrachloride	5	4.9	10											< 5.0	5.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Chlorobenzene	100	27	136	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5		
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5		
Chloroform	100	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 0.7	< 2	< 0.19	< 5	< 5	< 5	< 5		
Chloromethane														< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10											
Cyclohexane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
1,2-Dibromo-3-chloropropane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
1,2-Dibromoethane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Dibromochloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.6	< 5	< 5	< 5	< 5	< 5	< 5		
1,2-Dichlorobenzene	600	nc	nc	33	6.4	8	13	36	55	12	< 5.0	< 5.0	8.8	9.5	< 5.0	9.8	5.2	9.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
1,3-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
1,4-Dichlorobenzene	75	35	73	6	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
Dichlorodifluoromethane														< 10	< 10	< 10	< 10	< 10	< 10	< 10														
1,1-Dichloroethane	4,000	nc	nc	140	36	34	16	37	58	22	15	< 5.0	22	25	29	33	24	29	55	< 5.0	< 5.0	19	18	8.6	< 5	1.3 J	< 0.8	< 2	< 0.15	< 5	< 5	< 5	< 5		
1,2-Dichloroethane	5	1.6	2.9	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.5	< 2	< 0.12	4 J	< 5	< 5	< 5		
1,1-Dichloroethene	7	103	524	69	34	17	14	24	42	15	15	< 5.0	22	23	26	17	16	14	12	< 5.0	8.6	20	18	11	< 5	< 5	1.3 E	< 2	0.74	< 5	< 5	< 5	< 5		
cis-1,2-Dichloroethene	70	156	1,020	961	160	160	150	290	480	160	110	< 5.0	250	300	230	420	270	350	660	17	43	200	190	110	na	na	15	110	na	< 5	< 5	8	na		
trans-1,2-Dichloroethene	100	32	161	50	< 5	< 5	7.2	13	11	< 5.0	< 5.0	< 5.0	5.0	6.9	5.6	43	< 5.0	< 5.0	6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	43	1.8 E	< 2	1.8	< 5	< 5	< 5	na		
Total 1,2-Dichloroethene[b]	105	192	1,160	1,011	165	165	157.2	303	491	165	115	< 10	255	306.9	235.6	463	275	355	665.6	22	48	< 5.0	< 5.0	< 5.0	na	43	16.8 E	112	1.8	< 10	< 10	13	< 5		
1,2-Dichloropropane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
cis-1,3-Dichloropropene														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
trans-1,3-Dichloropropene														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Ethylbenzene	700	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 1.0	< 2	0.88	< 5	< 5	< 5	< 5		
Freon-113														< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 5.0	< 5.0											
2-Hexanone														< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 5.0	< 5.0											
Isopropylbenzene	5	207	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 10	na	< 5	< 5	< 5	na		
p- Isopropyl toluene	5	200	1,010	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5.0	< 5.0	< 5.0	na	na	na	< 10	na	< 5	< 5	< 5	na		
Methyl acetate														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Methyl tert-butyl ether														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Methylcyclohexane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	8.5	11 E	< 5	< 5	< 5	< 5	< 5	< 5		
4-Methyl-2-pentanone														< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 5.0	< 5.0											
Naphthalene	20	nc	nc	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5.0	< 5.0	< 5.0	na	na	na	< 10	NAV	< 5	< 5	< 5	na		
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5		
1,1,2,2-Tetrachloroethane														< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0											
Tetrachloroethene	5	1.3	3.9	34	14	9.7	5.8	11.0	9.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9	9.3	16	42	15	10	11	16	5.7		
Toluene	1,000	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.9	< 2	0.53	< 5	< 5	< 5	< 5		
1,2,4-Trichlorobenzene	70	nc	nc											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
1,1,1-Trichloroethane	200	nc	nc	118	47	59	< 5	28	52	18	15	< 5.0	23	36	40	34	28	26	35	< 5.0	8.5	23	32	17	< 5	< 5	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5		
1,1,2-Trichloroethane	5	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5		
Trichloroethene	5	18	35	433	120	130	66	150	200	51	48	< 5.0	84	96	98	87	73	68	49	< 5.0	13	44	40	19	11	7.2	5.6	69	14	< 5	< 5	5	< 5		
Trichlorofluoromethane	2,000	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na		
1,2,4-Trimethylbenzene				< 5	na	na	< 5	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na		
1,3,5-Trimethylbenzene				< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na		
Vinyl Chloride	2	1.1	3.3	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 10	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5		
m&p-Xylene	nc	nc	nc	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 5	na	< 5	< 5	< 5	na		
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 5	na	< 5	< 5	< 5	na		
Total Xylene	10,000	nc	nc	< 15	< 5	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	< 10	< 10	< 10	< 10	na	na	< 0.2	< 5	1.5	< 5	< 5	< 5	< 5		
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na	na					na	ns	ns
1,2-Dichlorobenzene	600	nc	nc																									< 10	< 10	< 10	NASV	NASV			
1,3-Dichlorobenzene	600	nc	nc																									< 10	< 10	< 10	NASV	NASV			
1,4-Dichlorobenzene	75	nc	nc																									< 10	< 10	< 10	NASV	NASV			
2,4-Dimethylphenol	700	nc	nc																									< 10	< 10	< 10	< 10	< 10			
Bis(2-Ethylhexyl)phthalate	6	nc	nc																									< 10	< 10	< 10	< 10	< 10			
2-Methylnaphthalene																												< 10	< 10	< 10	< 10	< 10			
2-Methylphenol (o-cresol)	10	nc	nc																									< 10	na	< 10	< 10	< 10			
4-Methylphenol (m&p-cresol)	10	nc	nc																									< 10	na	< 10	< 10	< 10			
Cresol (o,m,p)	10	nc	nc																									< 20	< 10	< 20	< 20	< 20			
Naphthalene	20	nc	nc																									< 10	< 10	< 10	< 10	< 10			
Metals, Method 6010B/ 7470A										na	na	na	na	na	na	na	na	na	na	na	na			na	na	na			na			ns	ns
Barium	2,000	nc	nc	100	152	186	103	< 20	60.7																		< 2	30	< 200		92	186	32.8		
Cadmium	5	7.8	51	18	12.5	8.8	< 5	< 5	< 5																		< 4	na	na		< 5	< 5	< 10		
Chromium	100	47	310	< 10	< 10	19.8	< 10	< 10	< 10																		< 3	< 10	na		< 10	14	< 10		
Copper	1,300	630	4,090	39	40.5	32.8	15.6	< 10	17.6																		na	< 20	< 25		< 10	< 20	< 10		
Lead	15	15	15	30	12.5	12.3	< 10	< 10	< 10																		< 19	< 25	na		< 10	< 10	< 10		
Manganese	ne	ne	ne	na	na	na	na	na	na																		na	na	na		na	na	na		
Nickel	100	310	2,040	623	379	301	186	100	263																		na	< 20	< 40		< 20	< 20	< 20		
Zinc	2,000	4,700	nc	150	101	112	49.5	< 20	80.7																		na	< 20	110		33	141	< 20		

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-3R 45 to 55 ft bg														MW-4 31 to 41 ft bg											MW-4a 36 to 46 ft bg								
				May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	May-88	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03	May-04	May-05	Jul-06	Apr-07	May-07	Oct-07-Oct-09	Apr-10	Oct-10	Apr-11
Concentration, ug/L																																				
Volatile Organics, Method 8260																										ns	ns					ns			
Acetone	4,000	nc[g]	nc	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	8.0 E	< 10,000	29	na	< 100	< 100	< 5			< 20	< 50	< 50	< 50	< 50		< 50	< 50	< 50
Benzene	5	4.4	8.7	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	1.3	< 200	0.5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	nr	< 1,000	< 0.19	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	na	< 12.0	< 10,000	< 10	na	< 100	< 100	< 10			< 10	< 50	< 50	< 50	< 50		< 50	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	na	< 5	11	< 5	na			na	na	na	na	na		na	na	na
sec-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	na	< 5	< 5	< 5	na			na	na	na	na	na		na	na	na
Carbon disulfide	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 1,000	< 5	na	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Chlorobenzene	100	27	136	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	9.9	< 1,000	28	12	47	39	95			< 5	18	13	12	< 5		7.2	8.6	7.2
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 400	< 1.3	< 500	< 0.37	< 10	< 10	< 10	< 5			< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Chloroform	100	nc	nc	16	5.1	5.6	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	26	53 J	8.6	< 200	0.5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
Chloromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10																		< 10	< 10	< 10
Cyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
1,2-Dibromoethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Dibromochloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	< 0.6	< 1,000	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	na	1,200	NAV	500	1050	886	na			61	630	320	340	70		420	350	150
1,3-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	na	< 1,000	NAV	147	359	175	na			16	220	120	120	22		150	130	51
1,4-Dichlorobenzene	75	35	73	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	na	< 1,000	NAV	94	149	136	na			9.4	150	74	67	12		86	76	28
Dichlorodifluoromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10																		< 10	< 10	< 10
1,1-Dichloroethane	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	51	< 200	12	< 200	4.9	< 5	5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	6.4	< 5.0
1,2-Dichloroethane	5	1.6	2.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	25	< 200	0.7 E	< 200	0.26	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	22	< 2	9	4 J	17	12	17			< 5	< 5	5.5	< 5	< 5		< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	< 5	5.7	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	40,000	na	10,100	20,700	35,300	67,000			10,000	16,000	20,000	97,000	9,200		8,500	8,700	12,000
trans-1,2-Dichloroethene	100	32	161	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	14,000	na	300	190	73	372	234	< 5			44	120	100	130	69		48	87	43
Total 1,2-Dichloroethene[h]	105	192	1,160	< 10	10.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	14000	56,000	40,300	190	10,173	21,072	35,534	67,005			10,044	16,120	20,100	97,130	9,269		8,548	8,787	12,043
1,2-Dichloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Ethylbenzene	700	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	110	< 200	150	< 200	56	9	27	23	7.1			< 5	8.1	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
Freon-113												< 10	< 10	< 10	< 10	< 10	< 10	< 10																		< 10	< 10	< 10
2-Hexanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10																		< 10	< 10	< 10
Isopropylbenzene	5	207	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 1,000	na	5	10	13	na			< 5	14	9.8	9	< 5		< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	na	< 5	< 5	< 5	na			na	na	na	na	na		na	na	na
Methyl acetate												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Methylcyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	110	360	< 2.8	< 500	< 5	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10																		< 10	< 10	< 10
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	NAV	< 5	< 5	< 5	na			na	na	na	na	na		na	na	na
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 0.4	< 500	< 0.13	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	1.3	3.9	< 5	5.1	8	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	200	590	3,100	20,000	690	36	994	228	3000			5.3	24	5.4	21	27		20	23	11
Toluene	1,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	32	< 200	110	< 200	14	5	20	16	22			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																		< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	200	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	< 0.4	< 200	1.1	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 200	< 0.9	< 200	17	< 5	< 5	< 5	< 5			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	14,000	20,000	26,000	1,300	45	1,360	218	3,600			12	29	13	44	65		36	39	25
Trichlorofluoromethane	2,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 200	na	< 1,000	< 0.22	< 5	< 5	< 5	na			< 5	< 5	< 5	< 5	< 5		< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene				na			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	na	23	43	45	na			na	na					na	na	na
1,3,5-Trimethylbenzene				na			na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 1,000	na	< 5	< 5	< 5	na			na	na					na	na	na
Vinyl Chloride	2	1.1	3.3	< 5	< 5	< 2	< 5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 400	2.3 E	< 1,000	8.5	3	10	5	< 5			5.4	6.1	9.4	7	< 2		< 2.0	6.4	< 2.0
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	na	na	na	< 500	na	< 5	7	6	na			< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	na	< 500	na	27	71	63	na			< 5	31	5.5	5.4	< 5		< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	na	na	520	< 500	110	27	78	69	71			< 15	31	5.5	5.4	< 15		< 15	< 15	< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						na	ns	ns	na	na	na	na	na	ns	na	na	na
1,2-Dichlorobenzene	600	nc	nc																			1,100	370	291	NASV	NASV												
1,3-Dichlorobenzene	600	nc	nc																			380	100	148	NASV	NASV												
1,4-Dichlorobenzene	75	nc	nc																			300	74	60	NASV	NASV												
2,4-Dimethylphenol	700	nc	nc																			< 100	< 10	< 10	< 10	< 10												
Bis(2-Ethylhexyl)phthalate	6	nc	nc																			< 100	< 10	< 10	< 10	< 10												
2-Methylnaphthalene																						< 100	< 10	< 10	< 10	< 10												
2-Methylphenol (o-cresol)	10	nc	nc																			< 100	na	< 10	< 10	< 10												
4-Methylphenol (m&p-cresol)	10	nc	nc																			< 100	na	< 10	< 10	< 10												
Cresol (o,m,p)	10	nc	nc																			< 200	< 10	< 20	< 20	< 20												
Naphthalene	20	nc	nc																			< 100	11	< 10	< 10	< 10												
Metals, Method 6010B/7470A								na	na	na	na	na	na	na	na	na	na	na	na	na							na	ns					ns			
Barium	2,000	nc	nc	21.6	48.5	< 20	40.1														< 2	40	< 200	na	164	286	61.2			41.1	na	28.1	< 20	245		0.0	0.0	0.0
Cadmium	5	7.8	51	< 5	< 5	< 5	< 5														< 4	na	na	na	< 5	27	< 10			< 5	na	< 5	86.6	52.7		0.0	0.0	0.0
Chromium	100	47	310	< 10	17.1	< 10	< 10														< 3	< 10	na	na	16	33	< 10			< 10	< 10	< 10	< 10	60.5		0.0	0.0	0.0
Copper	1,300	630	4,090	< 10	< 10	< 10	22.5														na	< 20	< 25	na	56	354	< 10			< 10	na	< 10	1,920	1,640		0.0	0.0	0.0
Lead	15	15	15	< 10	< 10	< 10	< 10														< 19	< 25	na	na	24	62	< 10			< 10	< 10	< 10	< 10	46.2		na	na	na
Manganese	ne	ne	ne	na	na	na	na														na	na	na	na	na	na	na			na	na	na	na	na		58,700	23,800	21,400
Nickel	100	310	2,040	< 20	< 20	< 20	< 20														na	320	210	na	188	269	412			522	na	467	501	472		na	na	na
Zinc	2,000	4,700	nc	< 20	< 20	< 20	< 20														na	40	60	na	92	260	27.7			154	na	< 20	1,920	1,360		na	na	na

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-4a 36 to 46 ft bg					IW-4 44 to 49 ft bg										MW-4b 96 to 101 ft bg																
				Oct 11 - Apr 13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10-Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15
Volatile Organics, Method 8260				ns									ns				ns																		
Acetone	4,000	nc[d]	nc		< 50	< 50	< 50	< 50	560	130	< 500	< 50		< 5,000	< 50	< 50		<50	< 20	< 50	< 50	< 20	< 50	58.0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5	4.4	8.7		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	8.9	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc		< 50	< 50	< 50	< 50	66.0	< 50	< 500	< 50		< 5,000	< 50	< 50		<50	100	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	5	626	4,088		na	na	na	na				na		na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec- Butylbenzene	5	626	4,088		na	na	na	na				na		na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	4,000	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.1		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7.7	<5.0
Carbon Tetrachloride	5	4.9	10		< 5.0	< 5.0	< 5.0	< 5.0						< 500	< 5.0	< 5.0		<5.0									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	100	27	136		5.6	5.1	< 5.0	< 5.0	9.1	6.8	< 50	10		< 500	8.2	< 5		5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	10	nc	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 100	< 10		< 1,000	< 10	< 10		<10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	63	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane																< 10											< 10	< 10	< 10	< 10	< 10	< 10				
Cyclohexane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
1,2-Dibromo-3-chloropropane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
1,2-Dibromoethane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Dibromochloromethane	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc		350	300	240	200	330	270	210	310		< 500	310	210		240	< 5	< 5	7.2	8.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc		160	110	100	74	150	120	86	190		< 500	160	85		110	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73		81	69	58	45	74.0	65.0	54.0	90		< 500	90	54		67	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane																< 10											< 10	< 10	< 10	< 10	< 10	< 10				
1,1-Dichloroethane	4,000	nc	nc		6.8	5.8	15	19	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	12		7.1	< 5	< 5	11	12	14	9	12	8.9	13	9.2	7.7	5.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020		7,400	6,300	6,000	6,000	< 5.0	16,000	12,000	13,000		8,200	9,800	8,400		7,400	7.5	190	660	380	< 5.0	120	< 5.0	< 5.0	< 5.0	15	62	37	7	25	15	< 5.0	< 5.0	5.7	<5.0
trans-1,2-Dichloroethene	100	32	161		48	36	29	38	< 5.0	130	96.0	110		< 500	61	46		47	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160		7,448	6,336	6,336	6,338	< 10	16,130	12,096	13,110		8,700	9,861	8,446		7,447	12.5	195	665	385	< 10	125	< 10	< 10	< 10	20	67	42	12	30	20	< 10	< 10	< 10	< 10
1,2-Dichloropropane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
cis-1,3-Dichloropropene																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
trans-1,3-Dichloropropene																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Ethylbenzene	700	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Freon-113																< 10											< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0
2-Hexanone																< 10											< 10	< 10	< 10	< 10	< 10	< 10				
Isopropylbenzene	5	207	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	16.0	< 50	< 5.0		< 500	< 5.0	6.4		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010		na	na	na	na						na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl acetate																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Methyl tert-butyl ether																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Methylcyclohexane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Methylene chloride	5	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone																< 10											< 10	< 10	< 10	< 10	< 10	< 10				
Naphthalene	20	nc	nc		na	na	na	na	na	na	na	na		na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane																< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
Tetrachloroethene	5	1.3	3.9		18	11	13	5.5	54	110	200	820		< 500	410	93		52	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Toluene	1,000	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc											< 500	< 5.0	< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0				
1,1,1-Trichloroethane	200	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35		37	19	20	17	< 5.0	150	420	1,600		< 500	420	110		62	< 5	< 5	< 5	5.1	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene					na	na	na	na								na		na	na				na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene					na	na	na	na								na		na	na				na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl Chloride	2	1.1	3.3		3.6	3.4	5.1	7.3	< 2.0	4.2	< 50	< 2.0		< 200	< 2.0	3.4		4.7	< 5	< 2	8	10	3.2	7.2	< 2.0	< 2.0	< 2.0	9.7	9.7	13	< 2.0	2.1	18	< 2.0	< 2.0	4.2	<5.0
m&p-Xylene	nc	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 100	< 10		< 500	< 10	< 10		<5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
o-Xylene	nc	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9.3	< 50	< 5.0		< 500	< 5.0	< 5.0		<5.0	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc		< 10	< 10	< 10	< 10	< 15	9.3	< 150	< 15		< 1,000	< 15	< 15		<10	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	< 10	< 10	< 10	< 10
Semi-Volatile Organics, Method 8270				ns	na	na		na	na	na	na	na	ns	na	na	na	ns	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na			na
1,2-Dichlorobenzene	600	nc	nc																																	
1,3-Dichlorobenzene	600	nc	nc																																	
1,4-Dichlorobenzene	75	nc	nc																																	
2,4-Dimethylphenol	700	nc	nc																																	
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																	
2-Methylnaphthalene																																				
2-Methylphenol (o-cresol)	10	nc	nc																																	
4-Methylphenol (m&p-cresol)	10	nc	nc																																	
Cresol (o,m,p)	10	nc	nc																																	
Naphthalene	20	nc	nc																																	
Metals, Method 6010B/7470A				ns	na	na		na	na	na	na		ns				ns						na	na	na	na	na	na	na	na	na	na			na
Barium	2,000	nc	nc									na		na	na	na		na	26.3	20.1	31	23.7														
Cadmium	5	7.8	51									< 5		na	na	na		na	< 5	< 5	< 5	< 5														
Chromium	100	47	310									na		na	na	na		na	10.1	21.8	< 10	< 10														
Copper	1,300	630	4,090									na		na	na	na		na	< 10	< 10	34.6	< 10														
Lead	15	15	15									< 10		na	na	na		na	< 10	< 10	< 10	< 10														
Manganese	ne	ne	ne											11,900	na	95,700		26,100	na	na	na	na														
Nickel	100	310	2,040									na		na	na	na		na	< 20	205	53.2	584														
Zinc	2,000	4,700	nc									77.3		na	na	na		na	< 20	< 20	88.8	28.8														

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-5 28 to 58 ft bg																							MW-6 25 to 45 ft bg									
				Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03
Volatile Organics, Method 8260																																					
Acetone	4,000	nc[g]	nc	nr	< 2.6	< 100	< 10	na	< 100	< 100	< 5	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	69	< 500	56	na	< 100	< 100	< 5	< 100	< 20
Benzene	5	4.4	8.7	nr	< 0.3	< 2	0.22	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	7.1	12	49	41	22	16	37	16	5.3
Bromodichloromethane	100	nc	nc	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	< 50	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	2,000	nc	nc	nr	< 12.0	< 100	< 10	na	< 100	< 100	< 10	< 100	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	22 E	< 500	< 10	na	< 100	< 100	< 10	< 100	< 10
n-Butylbenzene	5	626	4,088	nr	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 50	na	< 5	< 5	< 5	na	< 5	na
sec- Butylbenzene	5	626	4,088	nr	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 50	na	< 5	< 5	< 5	na	< 5	na
Carbon disulfide	4,000	nc	nc	nr	na	< 10	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 50	< 5	na	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride	5	4.9	10																			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Chlorobenzene	100	27	136	nr	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	0.416	< 50	1.0	< 5	< 5	< 5	23	52	9.0
Chloroethane	10	nc	nc	nr	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 400	< 1.3	< 25	1.5	< 10	< 10	< 10	< 5	< 10	< 10
Chloroform	100	nc	nc	nr	< 0.7	< 2	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	53 J	< 0.7	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5	17
Chloromethane																						< 10	< 10	< 10	< 10	< 10	< 10										
Cyclohexane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,2-Dibromo-3-chloropropane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,2-Dibromoethane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Dibromochloromethane	100	nc	nc	nr	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.6	< 50	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	600	nc	nc	nr	na	< 10	NAV	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	na	< 50	NAV	50	73	60	na	15	8.8
1,3-Dichlorobenzene	600	nc	nc	nr	na	< 10	NAV	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	na	< 50	NAV	7	10	7	na	10	< 5
1,4-Dichlorobenzene	75	35	73	nr	na	< 10	NAV	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	na	< 50	NAV	10	14	21	na	14	< 5
Dichlorodifluoromethane																						< 10	< 10	< 10	< 10	< 10	< 10										
1,1-Dichloroethane	4,000	nc	nc	nr	< 0.8	< 2	< 0.15	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.8	< 10	< 0.15	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	5	1.6	2.9	nr	< 0.5	< 2	< 0.12	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.5	< 10	0.83	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	7	103	524	nr	< 0.9	< 2	< 0.48	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.9	< 10	< 0.48	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	70	156	1,020	nr	na	2	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	550	na	873	739	399	na	480	140
trans-1,2-Dichloroethene	100	32	161	nr	na	< 2	< 0.23	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	320	na	< 10	9.5	6	5	< 5	na	< 5	< 5
Total 1,2-Dichloroethene[h]	105	192	1,160	nr	< 1.3	4	< 0.23	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	320	1400	560	9.5	879	744	404	730	485	145
1,2-Dichloropropane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
cis-1,3-Dichloropropene																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
trans-1,3-Dichloropropene																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Ethylbenzene	700	nc	nc	nr	< 1.0	< 2	0.37	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	110	28	83	58	63	45	83	56	14
Freon-113																						< 10	< 10	< 10	< 10	< 10	< 10										
2-Hexanone																						< 10	< 10	< 10	< 10	< 10	< 10										
Isopropylbenzene	5	207	nc	nr	na	< 10	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 50	na	< 5	< 5	< 5	na	< 5	< 5
p- Isopropyl toluene	5	200	1,010	nr	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 50	na	< 5	< 5	< 5	na	< 5	na
Methyl acetate																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methyl tert-butyl ether																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylcyclohexane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylene chloride	5	nc	nc	nr	< 2.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	340	< 2.8	< 25	< 5	< 5	5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone																						< 10	< 10	< 10	< 10	< 10	< 10										
Naphthalene	20	nc	nc	nr	na	< 10	NAV	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 50	NAV	38	15	10	na	19	na
Styrene	100	nc	nc	nr	< 0.4	< 5	0.32	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	< 0.4	< 25	< 0.13	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane																						< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Tetrachloroethene	5	1.3	3.9	nr	< 0.9	< 2	0.38	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.9	< 10	0.37	< 5	< 5	< 5	5.3	< 5	< 5
Toluene	1,000	nc	nc	nr	< 0.9	< 2	0.46	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	9.1	< 10	8.4	5	5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	70	nc	nc																			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,1,1-Trichloroethane	200	nc	nc	nr	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.4	< 10	< 0.25	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	5	nc	nc	nr	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	< 0.9	< 10	< 0.37	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	5	18	35	nr	< 0.6	2	0.49	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	1.0 E	< 10	0.75	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	2,000	nc	nc	nr	na	< 10	< 0.22	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 200	na	< 50	< 0.22	< 5	< 5	< 5	na	< 5	< 5
1,2,4-Trimethylbenzene				nr	na	< 10	na	< 5	< 5	< 5	na	25	na	na				na	na	na	na	na	na	na	na	na	na	na	na	< 50	na	24	20	14	na	21	na
1,3,5-Trimethylbenzene				nr	na	< 10	na	< 5	< 5	< 5	na	8	na	na				na	na	na	na	na	na	na	na	na	na	na	na	< 50	na	6	5	< 5	na	5	na
Vinyl Chloride	2	1.1	3.3	nr	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 400	< 1.7	< 50	4	3	11	7	< 5	7	< 5
m&p-Xylene	nc	nc	nc	nr	na	< 5	na	< 5	< 5	< 5	na	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	na	na	46	na	209	252	164	na	229	56
o-Xylene	nc	nc	nc	nr	na	< 5	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	72	na	71	75	57	na	69	20
Total Xylene	10,000	nc	nc	nr	< 0.2	< 5	1.38	< 5	< 5	< 5	< 5	< 15	< 5	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	na	580	120	520	280	327	221	350	298	76
Semi-Volatile Organics, Method 8270				nr	na						na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na						na	na	na
1,2-Dichlorobenzene	600	nc	nc			< 10	< 10	< 10	NASV	NASV																				30	33	49	NASV	NASV			
1,3-Dichlorobenzene	600	nc	nc			< 10	< 10	< 10	NASV	NASV																				< 10	< 10	< 10	NASV	NASV			
1,4-Dichlorobenzene	75	nc	nc			< 10	< 10	< 10	NASV	NASV																				< 10	< 10	10	NASV	NASV			
2,4-Dimethylphenol	700	nc	nc			< 10	< 10	< 10	< 10	< 10																				23	32	99	34	< 10			
Bis(2-Ethylhexyl)phthalate	6	nc	nc			< 10	< 10	< 10	< 10	< 10																				< 10	< 10	< 10	< 10	< 10			
2-Methylnaphthalene						< 10	< 10	< 10	< 10	< 10																				< 10	14	14	< 10	< 10			
2-Methylphenol (o-cresol)	10	nc	nc			< 10	na	< 10	< 10	< 10																				54	na	104	30	< 10			
4-Methylphenol (m&p-cresol)	10	nc	nc			< 10	na	< 10	< 10	< 10																				< 10	na	93	< 10	< 10			
Cresol (o,m,p)	10	nc	nc			< 20	< 10	< 20	< 20	< 20																				54	140	197	30	< 20			
Naphthalene	20	nc	nc			< 10	< 10	< 10	< 10	< 10																				< 10	62	59	< 10	< 10			
Metals, Method 6010B/7470A				nr														na	na	na	na	na	na	na	na	na	na	na				na					
Barium	2,000	nc	nc		< 2	< 10	< 200	na	25	< 20	39.4	< 20	< 20	< 20	< 20	< 20	< 20												< 2	70	< 200		158	147	62.4	51	53.7
Cadmium	5	7.8	51		< 4	na	na	na	6	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5												< 4	na	na		< 5	6	< 10	< 5	< 5
Chromium	100	47	310		< 3	< 10	na	na	< 10	< 10	< 10	< 10	< 10	< 10	10.5	23.5	< 10												< 3	< 10	na		< 10	< 10	< 10	< 10	< 10
Copper	1,300	630	4,090		na	< 20	< 25	na	< 20	< 20	39.6	< 20	< 10	< 10	< 10	< 10	< 10												na	< 20	< 25		< 20	< 20	< 10	< 20	< 10
Lead	15	15	15		< 19	< 25	na	na	< 10	< 10	12.1	< 10	< 10	< 10	< 10	< 10	< 10												< 19	< 25	na		< 10	< 10	< 10	< 10	< 10
Manganese	ne	ne	ne		na	na	na	na	na	na	na	na	na	na	na	na	na												na	na	na		na	na	na	na	na
Nickel	100	310	2,040		na	< 20	< 40	na	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20												na	40	80		80	62	39.1	100	< 20
Zinc	2,000	4,700	nc		na	< 20	70	na	47	< 20	44.3	< 20	< 20	< 20	< 20	< 20	< 20												na	< 20	50		95	94	< 20	< 20	< 20

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-6 25 to 45 ft bg																		MW-7 35 to 55 ft bg										
	Concentration, ug/L																															
				May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03	May-04
Volatile Organics, Method 8260																																
Acetone	4,000	nc[d]	nc	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	< 2.6	< 100	< 10	na	< 100	< 100	< 5	< 100	na	< 20
Benzene	5	4.4	8.7	7.4	< 5	6.2	< 5	< 5.0	< 5.0	< 5.0	< 5.0	5.5	12.0	5.6	7.6	9.2	7.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.3	< 2	0.27	< 5	< 5	< 5	< 5	< 5		< 5
Bromodichloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5		< 5
2-Butanone	2,000	nc	nc	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10	< 100		< 10
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
sec- Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Carbon disulfide	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 10	< 5	na	< 5	< 5	< 5	< 5		< 5
Carbon Tetrachloride	5	4.9	10									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Chlorobenzene	100	27	136	17	22	52	< 5	< 5.0	24.0	< 5.0	15	49	86	36	67	75.0	84.0	20	6	9.7	16	13	< 5	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5	< 5		< 5
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10		< 10
Chloroform	100	nc	nc	< 5	< 5	< 5	< 5	6.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.9	1.3 J	< 0.7	< 2	0.60	< 5	< 5	< 5	< 5	10		40
Chloromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10														
Cyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
1,2-Dibromo-3-chloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
1,2-Dibromoethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Dibromochloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5		< 5
1,2-Dichlorobenzene	600	nc	nc	20	8.3	9.7	< 5	< 5.0	7.3	< 5.0	< 5.0	5.8	6.9	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
1,3-Dichlorobenzene	600	nc	nc	5	< 5	8.5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9.9	< 5.0	6.4	8.6	9.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
1,4-Dichlorobenzene	75	35	73	7	5.7	12	< 5	< 5.0	6.1	< 5.0	< 5.0	8.3	14.0	6.0	10	11	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
Dichlorodifluoromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10														
1,1-Dichloroethane	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.8	< 2	< 0.15	< 5	< 5	< 5	< 5	< 5		< 5
1,2-Dichloroethane	5	1.6	2.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.5	< 2	< 0.12	< 5	< 5	< 5	< 5	< 5		< 5
1,1-Dichloroethene	7	103	524	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.9	< 2	< 0.48	< 5	< 5	< 5	< 5	< 5		< 5
cis-1,2-Dichloroethene	70	156	1,020	82	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 5.0	6.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	12	< 5.0	< 5.0	na	na	5	na	< 5	< 5	< 5	na	24		< 5
trans-1,2-Dichloroethene	100	32	161	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 2	< 0.23	< 5	< 5	< 5	na	< 5		< 5
Total 1,2-Dichloroethene[h]	105	192	1,160	87	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11.2	< 10	11.2	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	4.5 E	7	< 0.23	< 10	< 10	< 10	< 10	29		< 10
1,2-Dichloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
cis-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
trans-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Ethylbenzene	700	nc	nc	31	25	50	< 5	< 5.0	24.0	< 5.0	7.2	32	90	18	46	59	57	5.2	< 5.0	< 5.0	10	8.1	< 5	< 1.0	< 2	< 0.34	< 5	< 5	< 5	< 5	< 5		< 5
Freon-113												< 10	< 10	< 10	< 10	< 10	< 10	< 10														
2-Hexanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10														
Isopropylbenzene	5	207	nc	< 5	< 5	7.3	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.8	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 10	na	< 5	< 5	< 5	na	< 5		< 5
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Methyl acetate												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Methyl tert-butyl ether												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Methylcyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 7.1	6.9 E	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5
4-Methyl-2-pentanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10														
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	NAV	< 5	< 5	< 5	na	< 5		na
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5	< 5		< 5
1,1,2,2-Tetrachloroethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
Tetrachloroethene	5	1.3	3.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.5	1.7 E	< 2	0.51	< 5	< 5	< 5	< 5	< 5		< 5
Toluene	1,000	nc	nc	< 5	< 5	7.3	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.9	< 2	0.5	< 5	< 5	< 5	< 5	< 5		< 5
1,2,4-Trichlorobenzene	70	nc	nc									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0														
1,1,1-Trichloroethane	200	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5	< 5		< 5
1,1,2-Trichloroethane	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5	< 5		< 5
Trichloroethene	5	18	35	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5.1	< 2	0.62	< 5	< 5	< 5	< 5	< 5		< 5
Trichlorofluoromethane	2,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na	< 5		< 5
1,2,4-Trimethylbenzene				na				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
1,3,5-Trimethylbenzene				na				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Vinyl Chloride	2	1.1	3.3	20	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	4.1	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	< 2.0	< 2.0	< 2.0	< 10	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5	< 2		< 5
m&p-Xylene	nc	nc	nc	130	80	190	< 10	< 10	16.0	< 10	< 10	84	310	25	190	170	120 J	< 5.0	< 5.0	< 5.0	12	7.2	na	na	< 5	na	< 5	< 5	< 5	na	< 10		< 10
o-Xylene	nc	nc	nc	45	27	60	< 5	< 5.0	8.1	< 5.0	6.1	24	100	15	60	63	51	< 5.0	< 5.0	< 5.0	5.1	<5.0	na	na	< 5	na	< 5	< 5	< 5	na	< 5		< 5
Total Xylene	10,000	nc	nc	175	107	250	< 15	< 15	24.1	< 15	6.1	108	410	40	250	233	171	<10	< 10	< 10	17.1	7.2	na	0.8 E	< 5	0.76	< 5	< 5	< 5	< 5	< 15		< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na							na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																						< 10	< 10	< 10	NASV	NASV				
1,3-Dichlorobenzene	600	nc	nc																						< 10	< 10	< 10	NASV	NASV				
1,4-Dichlorobenzene	75	nc	nc																						< 10	< 10	< 10	NASV	NASV				
2,4-Dimethylphenol	700	nc	nc																						< 10	< 10	< 10	< 10	< 10				
Bis(2-Ethylhexyl)phthalate	6	nc	nc																						20	< 10	< 10	< 10	< 10				
2-Methylnaphthalene																									< 10	< 10	< 10	< 10	< 10				
2-Methylphenol (o-cresol)	10	nc	nc																						< 10	na	< 10	< 10	< 10				
4-Methylphenol (m&p-cresol)	10	nc	nc																						< 10	na	< 10	< 10	< 10				
Cresol (o,m,p)	10	nc	nc																						< 20	< 10	< 20	< 20	< 20				
Naphthalene	20	nc	nc																						< 10	< 10	< 10	< 10	< 10				
Metals, Method 6010B/7470A								na	na	na	na	na	na	na	na	na	na	na	na	na		na	na				na					
Barium	2,000	nc	nc	67.6	60.0	44.4	51.9																710	60	< 200		125	74	34.1	147	819	66.8
Cadmium	5	7.8	51	7	< 5	< 5	< 5																< 4	na	na		< 5	< 5	< 10	< 5	< 5	< 5
Chromium	100	47	310	17.4	< 10	< 10	< 10																30	< 10	na		< 10	< 10	< 10	< 10	17.6	< 10
Copper	1,300	630	4,090	25.2	< 10	< 10	< 10																na	< 20	< 25		< 20	< 20	< 10	< 20	23.6	< 10
Lead	15	15	15	< 10	< 10	< 10	< 10																80	< 25	na		11	< 10	< 10	10	46.2	< 10
Manganese	ne	ne	ne	na	na	na	na																na	na	na		na	na	na	na	na	na
Nickel	100	310	2,040	61.1	< 20	65.1	< 20																na	< 20	< 40		< 20	< 20	< 20	< 20	< 20	< 20
Zinc	2,000	4,700	nc	138	< 20	< 20	< 20																na	30	30		37	< 20	< 20	29	181	< 20

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-7R 45 to 55 ft bg														MW-8 35 to 55 ft bg																		
				May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-08	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01	May-02	Sep-03	May-04	May-05	Jul-06	Apr-07	May-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Volatile Organics, Method 8260																																				
Acetone	4,000	nc[g]	nc	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	22	< 100	< 10	na	< 100	< 100	< 5	< 100	< 20	< 20	< 50	< 50	250	93	< 50	< 50	260 J	< 50	< 50
Benzene	5	4.4	8.7	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	1.7	< 2	1.4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10	< 100	< 10	< 10	< 5	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 10	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Chlorobenzene	100	27	136	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	2.5	< 10	9.9	7	11	16	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	100	nc	nc	45	27	38	23	29	40	25	21	19	19	20	19	17	22	12	3.1 J	9.8	< 2	1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10																				
Cyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
1,2-Dibromo-3-chloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
1,2-Dibromoethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Dibromochloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	41	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	180	NAV	280	339	374	na	17	170	160	75	110	130	66	68	76	16 J	48	42
1,3-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	120	NAV	81	92	129	na	< 5	58	47	26	34	36	19	10	12	< 5.0	6.6	9.9
1,4-Dichlorobenzene	75	35	73	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	62	NAV	50	60	79	na	< 5	37	30	16	21	24	12	9.5	10	< 5.0	6.7	7.2
Dichlorodifluoromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10																				
1,1-Dichloroethane	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	92	12	120	106	117	36	< 5	46	55	43	20	44	59	39	38	73	47	48	32
1,2-Dichloroethane	5	1.6	2.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	3.9	< 2	2.9	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	26	12	17	16	16	8	< 5	< 5	6.1	< 5	< 5	6.3	< 5	< 5	< 5	7.5	5.3	6.1	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	14,000	na	13,300	18,700	11,200	na	7,020	9,100	8,100	3,400	9,300	< 5	< 5	4,000	4,800	6,300	8,300	4,800
trans-1,2-Dichloroethene	100	32	161	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	200	170	111	154	92	na	23	90	59	27	60	< 5	< 5	33	32	38	50	36
Total 1,2-Dichloroethene[h]	105	192	1,160	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	21,000	14200	170	13411	18854	11,292	1,900	7043	9,190	8,159	3,427	9360	< 10	< 10	4,033	4,832	6,338	8,350	4,836
1,2-Dichloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
cis-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
trans-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Ethylbenzene	700	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	2.6 E	< 2	1.3	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Freon-113												< 10	< 10	< 10	< 10	< 10	< 10	< 10																				
2-Hexanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10																				
Isopropylbenzene	5	207	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 10	na	8	10	5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na
Methyl acetate												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Methyl tert-butyl ether												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Methylcyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11 B	7.5 E	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10																				
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	NAV	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na	na	na	na	na	na
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
Tetrachloroethene	5	1.3	3.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	790	1,800	180	112	200	616	280	6	170	81	100	60	< 5	< 5	10	11	< 5.0	6.7	18
Toluene	1,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	3.5	< 2	1.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																				
1,1,1-Trichloroethane	200	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	3.3	7	1.4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	2.8 E	< 2	1.3	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	4,600	4,500	880	362	481	1,210	240	28	310	360	200	130	< 5	< 5	22	20	14	18	27
Trichlorofluoromethane	2,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene				na				na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na					na	na	na	na
1,3,5-Trimethylbenzene				na				na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na					na	na	na	na
Vinyl Chloride	2	1.1	3.3	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	17	< 10	8	7	13	6	< 5	< 2	< 5	< 5	< 2	7.1	< 2	< 2	4.1	5.9	3.8	6.0	3.5
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	na	na	< 5	na	< 5	< 5	< 5	na	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	na	na	< 5	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	na	5.2	< 5	2.8	< 5	< 5	< 5	< 5	< 15	< 5	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na							na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																		140	150	171	NASV	NASV														
1,3-Dichlorobenzene	600	nc	nc																		< 100	49	80	NASV	NASV														
1,4-Dichlorobenzene	75	nc	nc																		< 100	35	59	NASV	NASV														
2,4-Dimethylphenol	700	nc	nc																		< 100	< 10	12	< 10	< 10														
Bis(2-Ethylhexyl)phthalate	6	nc	nc																		< 100	< 10	< 10	< 10	< 10														
2-Methylnaphthalene																					< 100	< 10	< 10	< 10	< 10														
2-Methylphenol (o-cresol)	10	nc	nc																		< 100	na	< 10	< 10	< 10														
4-Methylphenol (m&p-cresol)	10	nc	nc																		< 100	na	< 10	< 10	< 10														
Cresol (o,m,p)	10	nc	nc																		< 200	< 10	< 20	< 20	< 20														
Naphthalene	20	nc	nc																		< 10	< 10	< 10	< 10	< 10														
Metals, Method 6010B/7470A								na	na	na	na	na	na	na	na	na	na	na	na																na			
Barium	2,000	nc	nc	82.7	86.3	48.4	85.7													230	70	< 200	na	75	165	36.3	521	26.4	40.3	na	63.8	< 20	46	< 20	< 20f	na		na
Cadmium	5	7.8	51	< 5	< 5	< 5	< 5													< 4	na	na	na	< 5	< 5	< 10	69	< 5	< 5	na	< 5	7.6	11.8	30.8	< 5.0	< 5.0		na
Chromium	100	47	310	< 10	12.7	12.4	23.3													40	< 10	na	na	< 10	29	< 10	154	< 10	44.0	< 10	< 10	165	83.2	< 10	38.5	na		na
Copper	1,300	630	4,090	< 10	< 10	< 10	12.3													na	< 20	40	na	< 20	79	26.1	705	19.6	32.4	na	46.8	2,800	1970	1,470	520	na		na
Lead	15	15	15	< 10	< 10	< 10	< 10													< 19	< 25	na	na	13	25	11.7	107	23.5	21.8	16.8	18.4	20.4	< 10	< 10	< 10	12.1		na
Manganese	ne	ne	ne	na	na	na	na													na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na			na
Nickel	100	310	2,040	< 20	< 20	< 20	< 20													na	210	880	na	879	679	226	989	1,140	1,380	na	1,070	482	301	1,130	857	na		788
Zinc	2,000	4,700	nc	20.4	< 20	< 20	41.2													na	60	200	na	119	314	124	1,130	265	312	na	249	91	85.4	372	156	na		na

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-8 35 to 55 ft bg												MW-9a 17 to 27 ft bg													MW-9b 53.5 to 58.5 ft bg								
				Apr-10	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr 10 - Oct 14	Mar-15	Apr-15	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08
Volatile Organics, Method 8260																										ns											
Acetone	4,000	nc[g]	nc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50		< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50
Benzene	5	4.4	8.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	1,100 E	< 5.0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50		< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na		na	na	< 5	7	na	na	na	na	na	na	na
sec-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na		na	na	< 5	< 5	na	na	na	na	na	na	na
Carbon disulfide	4,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	33	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																							
Chlorobenzene	100	27	136	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	473	218	380	490	400	270	220	180	370	110	18		69	150	203	455	300	300	270	480	120	100	250
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		15	8.7	17	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
Chloromethane				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10																											
Cyclohexane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
1,2-Dibromo-3-chloropropane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
1,2-Dibromoethane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Dibromochloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	26	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	20	54	71.0	68	49	78	54	77	23	53	68	59	35	58	24	73	60	74	20	15	46	18	< 5.0		< 5.0	9.3	10	20	26	56	41	18	7	5.8	12.0
1,3-Dichlorobenzene	600	nc	nc	5.6	14.0	17.0	7.5	5.3	9.1	8.3	10	7	14	16	16	33	26	37	44	42	30	33	18	55	18	< 5.0		8	14	13	33	17	18	14	31	11	8	17
1,4-Dichlorobenzene	75	35	73	5.6	11.0	14.0	9.1	6.8	9.6	9.3	9.9	5.6	11	14	13	49	38	56	64	57	43	47	25	76	27	< 5.0		10	22	23	54	28	35	24	50	18	13	28
Dichlorodifluoromethane				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10																											
1,1-Dichloroethane	4,000	nc	nc	14	37	44.0	53	41	83	43	89	22	32	37	38	< 5	< 5	< 5	< 20	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5.0	< 5.0	< 5.0	6.8	< 5.0	9.3	<5.0	<5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	1,500	4,500	8,000	18,000 E	6,100	11,000	5,000	13,000	2,400	4,600	5,500	4,600	51	52	130	38	34	23	75	17	15	7.8	5.5		< 5	<5.0	222	334	1,000	1,500	1,100	200	56	10	13
trans-1,2-Dichloroethene	100	32	161	12	39	46	42	32	63	27	68	15	28	28	34	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	1,512	4,539	8,046	18,042	6,132	11,063	5,027	13,068	2,415	4,628	5,528	4,634	56	57	135	43	39	28	80	22	20	12.8	10.5		< 10	<5.0	227	339	1005.8	1,512	1,110	205	61	15	18
1,2-Dichloropropane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
cis-1,3-Dichloropropene				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
trans-1,3-Dichloropropene				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Ethylbenzene	700	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	10	6	< 5	5.5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	37	64	85	< 5	< 5	31	35	14	30
Freon-113				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10																											
2-Hexanone				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10																											
Isopropylbenzene	5	207	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	6.1	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	7	6.5	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na		na	na	< 5	< 5	na	na	na	na	na	na	na
Methyl acetate				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Methyl tert-butyl ether				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Methylcyclohexane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Methylene chloride	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
4-Methyl-2-pentanone				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10																											
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na		na	na	14	19	na	na	na	na	na	na	na
Styrene	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
Tetrachloroethene	5	1.3	3.9	20	27	17	12	9	8.3	6.9	8.5	18.0	16	23	20	28	68	32	28	14	26	< 5	24	15.0	57.0	90		31	16	17	9	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
Toluene	1,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	5	9	< 5	< 5	6.2	< 5	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0																											
1,1,1-Trichloroethane	200	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
Trichloroethene	5	18	35	21	28	20	23	21	19	12	24	17	16	18	15	5	39	7.2	10	7.8	12	9	< 5.0	11.0	11.0	5.2		< 5.0	<5.0	7	7	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0
1,2,4-Trimethylbenzene				na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na		na	na	13	26	na	na				na	na
1,3,5-Trimethylbenzene				na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na		na	na	< 5	8	na	na				na	na
Vinyl Chloride	2	1.1	3.3	< 2.0	3.5	3.3	5.9	3.8	12	2.5	11	2	3.7	3.2	4.8	< 2	< 2	< 5	< 5	< 5	< 2	< 2	3.7	< 2	< 2	< 2		< 2.0	< 2.0	3	7	10	15	< 5	2.8	24	6.7	7.7
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	11	18	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	40	66	200	< 10	< 10	13	21	< 10	< 10
o-Xylene	nc	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	< 5	5.9	7.5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	33	65	120	24	22	7.2	12	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	< 10	< 10	< 10	< 10	5	< 10	16.9	25.5	< 10	< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	73	131	320	24	22	20.2	33	< 15	< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na		na	ns	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																																			
1,3-Dichlorobenzene	600	nc	nc																																			
1,4-Dichlorobenzene	75	nc	nc																																			
2,4-Dimethylphenol	700	nc	nc																																			
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																			
2-Methylnaphthalene																																						
2-Methylphenol (o-cresol)	10	nc	nc																																			
4-Methylphenol (m&p-cresol)	10	nc	nc																																			
Cresol (o,m,p)	10	nc	nc																																			
Naphthalene	20	nc	nc																																			
Metals, Method 6010B/7470A								na		na															na	na	na	na			ns								
Barium	2,000	nc	nc	0.0	0.0	0.0	0.0		na		na	na	na		na	402	63	< 20	25.9	< 20	< 20	27.1								55	40	276	143	140	34.1	49.7	na	na
Cadmium	5	7.8	51	0.0	0.0	0.0	0.0		na		na	na	na		na	< 5	< 5	< 5	< 5	< 5	< 5	< 5								< 5	< 5	na	< 5	< 5	< 5	< 5	na	na
Chromium	100	47	310	0.0	0.0	0.0	0.0		na		na	na	na		na	57	< 10	< 10	< 10	< 10	< 10	< 10								< 10	< 10	30.2	25.7	68.9	21.9	307	na	na
Copper	1,300	630	4,090	0.0	0.0	0.0	0.0		na		na	na	na		na	72	< 20	< 10	< 10	< 10	< 10	< 10								< 20	< 20	53.8	25.6	18.7	< 10	13	na	na
Lead	15	15	15	na	na	na	na		na		na	na	na		na	28	< 10	< 10	< 10	< 10	< 10	< 10								< 10	< 10	19.6	25.1	15.7	< 10	< 10	< 10	< 10
Manganese	ne	ne	ne	6,920	12,600	16,900	15,600		16,800		15,700	11,100	11,600		15,600	na	na	na	na	na	na	na								na	na	na	na	na	na	na	na	na
Nickel	100	310	2,040	na	na	na	na		na		na	na	na		na	96	55	41.7	45.6	28.3	32.4	46.9								123	125	547	3,530	3,000	176	389	na	na
Zinc	2,000	4,700	nc	na	na	na	na		na		na	na	na		na	222	37	< 20	< 20	< 20	< 20	< 20								34	< 20	207	265	140	57.6	43	na	na

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-9b 53.5 to 58.5 ft bg					MW-10 24 to 34 ft bg		MW-10 24 to 34 ft bg															MW-11 28 to 38 ft bg											
				Apr-09	Oct-09	Apr 10 - Oct 14	Mar-15	Apr-15	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10
Volatile Organics, Method 8260						ns					na																										
Acetone	4,000	nc[g]	nc	< 50	< 50		< 50	< 50	< 100	< 100		< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	
Benzene	5	4.4	8.7	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
2-Butanone	2,000	nc	nc	< 50	< 50		< 50	< 50	< 100	< 100		< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	
n-Butylbenzene	5	626	4,088	na	na		na	na	< 5	< 5		na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	
sec-Butylbenzene	5	626	4,088	na	na		na	na	< 5	< 5		na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	
Carbon disulfide	4,000	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	13		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
Carbon Tetrachloride	5	4.9	10																	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	100	27	136	220	250		280	230	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	62	25	6.3	40	40	41	170	< 5.0	190	6.8	56	9.3
Chloroethane	10	nc	nc	< 10	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chloroform	100	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane																				< 10	< 10	< 10	< 10	< 10	< 10											
Cyclohexane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromo-3-chloropropane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromoethane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Dibromochloromethane	100	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
1,2-Dichlorobenzene	600	nc	nc	8.5	7.1		< 5.0	<5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9	5	< 5	< 5	< 5	< 5	5.8	< 5.0	6.1	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	18.0	19		31	23	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	6	< 5	< 5	< 5	< 5	< 5	11	< 5.0	11.0	< 5.0	5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	30.0	28		42	36	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	10	5	< 5	6.5	6.2	6.7	20	< 5.0	22.0	< 5.0	8.1	< 5.0
Dichlorodifluoromethane																				< 10	< 10	< 10	< 10	< 10	< 10											
1,1-Dichloroethane	4,000	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	16	< 5		< 5	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	13.0	< 5.0	< 5.0	6.9
trans-1,2-Dichloroethene	100	32	161	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	21	< 10		< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11.9
1,2-Dichloropropane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
cis-1,3-Dichloropropene																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
trans-1,3-Dichloropropene																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Ethylbenzene	700	nc	nc	20.0	22		50	31	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Freon-113																				< 10	< 10	< 10	< 10	< 10	< 10											
2-Hexanone																				< 10	< 10	< 10	< 10	< 10	< 10											
Isopropylbenzene	5	207	nc	< 5.0	< 5.0		5.8	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na		na	na	< 5	< 5		na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	
Methyl acetate																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methyl tert-butyl ether																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methylcyclohexane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methylene chloride	5	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
4-Methyl-2-pentanone																				< 10	< 10	< 10	< 10	< 10	< 10											
Naphthalene	20	nc	nc	na	na		na	na	< 5	< 5		na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	
Styrene	100	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
1,1,2,2-Tetrachloroethane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Tetrachloroethene	5	1.3	3.9	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	7	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7	< 5	7	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	8.4
Toluene	1,000	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trichlorobenzene	70	nc	nc																	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,1,1-Trichloroethane	200	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
Trichloroethene	5	18	35	27	12		12	<5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	5.7	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc	< 5.0	< 5.0		< 5.0	< 5.0	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	
1,2,4-Trimethylbenzene				na	na		na	na	< 5	8		na				na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na	
1,3,5-Trimethylbenzene				na	na		na	na	< 5	< 5		na				na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na	
Vinyl Chloride	2	1.1	3.3	9.1	2.8		2.8	<2.0	< 2	< 2		< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
m&p-Xylene	nc	nc	nc	< 10	< 10		150	45	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	nc	nc	nc	< 5.0	< 5.0		45	17	< 5	< 5		< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	5.6	< 5.0	5.4	< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 15	< 15		195	< 15	< 10	< 10		< 10	< 10	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 10	< 10	< 15	< 5	< 15	< 15	< 15	5.6	< 15	5.4	< 15	< 15	< 15
Semi-Volatile Organics, Method 8270				na	na		na	ns	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																																		
1,3-Dichlorobenzene	600	nc	nc																																		
1,4-Dichlorobenzene	75	nc	nc																																		
2,4-Dimethylphenol	700	nc	nc																																		
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																		
2-Methylnaphthalene																																					
2-Methylphenol (o-cresol)	10	nc	nc																																		
4-Methylphenol (m&p-cresol)	10	nc	nc																																		
Cresol (o,m,p)	10	nc	nc																																		
Naphthalene	20	nc	nc																																		
Metals, Method 6010B/7470A				na	na			ns								na	na	na	na	na	na	na	na	na	na								na	na	na	na	na
Barium	2,000	nc	nc						57	25	20.3	30.1	31.1	31	39.4											118	192	66.9	57.5	131	54.3	194					
Cadmium	5	7.8	51						< 5	< 5	< 5	< 5	< 5	< 5	< 5											< 5	< 5	< 5	< 5	< 5	< 5	< 5					
Chromium	100	47	310						< 10	< 10	< 10	11.3	< 10	< 10	< 10											14	31	< 10	< 10	< 10	< 10	43.6					
Copper	1,300	630	4,090						< 20	< 20	< 10	12.5	< 10	< 10	< 10											< 20	31	< 10	< 10	< 10	< 10	19.4					
Lead	15	15	15						< 10	< 10	< 10	< 10	< 10	< 10	< 10											< 10	< 10	< 10	< 10	< 10	< 10	< 10					
Manganese	ne	ne	ne						na	na	na	na	na	na	na											na	na	na	na	na	na	na					
Nickel	100	310	2,040						33	< 20	< 20	24.7	< 20	< 20	29.3											83	66	62.5	49.7	37.9	35.2	76.1					
Zinc	2,000	4,700	nc						35	< 20	< 20	26.2	< 20	45.7	37.6											36	67	< 20	< 20	< 20	< 20	99.9					

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-11 28 to 38 ft bg										MW-12 36 to 46 ft bg									MW-12 36 to 46 ft bg														MW-13a 35 to 50 ft bg		
				Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	May-07	Oct-07	Apr-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Dec-01	May-02	Sep-03
Volatile Organics, Method 8260															ns														ns		ns							ns
Acetone	4,000	nc[g]	nc		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100		< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50		< 50	< 50	< 50	< 50	< 50	< 100	< 100	
Benzene	5	4.4	8.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Bromodichloromethane	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
2-Butanone	2,000	nc	nc		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100		< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50		< 50	< 50	< 50	< 50	< 50	< 100	< 100	
n-Butylbenzene	5	626	4,088		na	na	na	na	na	na	na	na	na	< 5		na	na	na	na	na	na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
sec-Butylbenzene	5	626	4,088		na	na	na	na	na	na	na	na	na	13		na	na	na	na	na	na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
Carbon disulfide	4,000	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Carbon Tetrachloride	5	4.9	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 30	< 30	< 30											< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0			
Chlorobenzene	100	27	136	130	22.0	250	79.0	180	13	37	30	150	57	13		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Chloroethane	10	nc	nc		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chloroform	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Chloromethane					< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10		< 10		< 10							
Cyclohexane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0									
1,2-Dibromo-3-chloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
1,2-Dibromoethane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Dibromochloromethane	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,2-Dichlorobenzene	600	nc	nc	5.8	< 5.0	7	< 5.0	6.5	< 5.0	< 5.0	< 5.0	10	5.0	63		41	28	15	22	16	36	17	21	12	5.6	8.5	10.0		11		7.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,3-Dichlorobenzene	600	nc	nc	7.6	< 5.0	12	< 5.0	12	< 5.0	< 5.0	< 5.0	7.5	<5.0	13		11	7	< 5	6	< 5	8.7	< 5.0	6.4	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,4-Dichlorobenzene	75	35	73	14	< 5.0	25	11	22	< 5.0	5.9	< 5.0	16	8.0	11		7.6	< 5	< 5	< 5	< 5	6.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Dichlorodifluoromethane					< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10		< 10		< 10							
1,1-Dichloroethane	4,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		11	< 5	5.9	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	6.4	< 5.0		< 5.0		< 5.0	5.0	5.0	6.2	<5.0	< 5	< 5	
1,2-Dichloroethane	5	1.6	2.9		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,1-Dichloroethene	7	103	524	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
cis-1,2-Dichloroethene	70	156	1,020	56	< 5.0	69	10	8.9	< 5.0	45	23	130	23	3,830		120	990	390	1,200	1,400	2,000	180	170	120	23	360	200		140		110	49	21	32	21	< 5	< 5	
trans-1,2-Dichloroethene	100	32	161	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	27		< 5	6.6	< 5	9	9.6	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Total 1,2-Dichloroethene[h]	105	192	1,160	61	< 10	74	15	13.9	< 10	50	23	130	23	3,857		125	996.6	395	1209	1410	2013	185	175	125	28	365	205		145		115	54	21	32	21	< 10	< 10	
1,2-Dichloropropane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
cis-1,3-Dichloropropene					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
trans-1,3-Dichloropropene					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Ethylbenzene	700	nc	nc	7.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	24		13	11	5.8	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Freon-113					< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10		< 10		< 5.1							
2-Hexanone					< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10		< 10		< 5.2							
Isopropylbenzene	5	207	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	53		67	38	38	31	18	21	20	17.0	23	9	26	13		< 5.0		6.3	10.0	11	7.8	9.4	< 5	< 5	
p- Isopropyl toluene	5	200	1,010		na	na	na	na	na	na	na	na	na	18		na	na	na	na	na	na	na	na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
Methyl acetate					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Methyl tert-butyl ether					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Methylcyclohexane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Methylene chloride	5	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
4-Methyl-2-pentanone					< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10		< 10		< 10							
Naphthalene	20	nc	nc		na	na	na	na	na	na	na	na	na	69		na	na	na	na	na	na	na	na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
Styrene	100	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,1,2,2-Tetrachloroethane					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0		< 5.0							
Tetrachloroethene	5	1.3	3.9	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	5.7	5.6	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Toluene	1,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,2,4-Trichlorobenzene	70	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0															< 5.0	< 5.0	< 5.0		< 5.0									
1,1,1-Trichloroethane	200	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,1,2-Trichloroethane	5	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Trichloroethene	5	18	35	11	< 5.0	13	< 5.0	< 5.0	< 5.0	10.0	<5.0	9.3	5.2	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	6.9	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Trichlorofluoromethane	2,000	nc	nc		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
1,2,4-Trimethylbenzene					na	na	na	na	na	na	na	na	na	397		na	na					na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
1,3,5-Trimethylbenzene					na	na	na	na	na	na	na	na	na	91		na	na					na	na	na	na	na		na		na	na	na	na	na	< 5	< 5	
Vinyl Chloride	2	1.1	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	40		< 5	39	32	64	64	69	21	9.2	4.6	< 2.0	25	6.8		10		6.9	4.0	<2	2.3	<2.0	< 2	< 2	
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	15		14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	
o-Xylene	nc	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	17		14	12	7.6	6.2	< 5	6.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 10	< 10	< 10	< 10	< 10	32		28	12	7.6	6.2	< 15	6.1	< 15	< 15	< 15	< 15	< 15	< 15		< 15		<10	< 10	< 10	< 10	< 10	< 15	< 15	
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na		na	na	ns	na	na	na	na	na	na	na	na	na	na	na	na	ns	na	ns	na	na	na		na	na	na	ns
1,2-Dichlorobenzene	600	nc	nc																																		
1,3-Dichlorobenzene	600	nc	nc																																		
1,4-Dichlorobenzene	75	nc	nc																																		
2,4-Dimethylphenol	700	nc	nc																																		
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																		
2-Methylnaphthalene																																					
2-Methylphenol (o-cresol)	10	nc	nc																																		
4-Methylphenol (m&p-cresol)	10	nc	nc																																		
Cresol (o,m,p)	10	nc	nc																																		
Naphthalene	20	nc	nc																																		
Metals, Method 6010B/7470A				na	na	na	na	na	na	na	na		na		ns							na	na	na				ns		ns							ns
Barium	2,000	nc	nc											1,210		22	38.5	28.9	38.2	42.2	87.1				0.0	0.0	0.0		0.0		na	na	na		na	412	344	
Cadmium	5	7.8	51											< 5		< 5	< 5	< 5	< 5	< 5	< 5				0.0	0.0	0.0		0.0		na					< 5	< 5	
Chromium	100	47	310											193		< 10	< 10	15.7	15.7	< 10	< 10				0.0	0.0	0.0		0.0		na					25	25	
Copper	1,300	630	4,090											298		< 10	< 10	< 10	< 10	< 10	< 10				0.0	0.0	0.0		0.0		na					< 20	23	
Lead	15	15	15											64		< 10	< 10	< 10	< 10	< 10	< 10				na	na	na		na		na					16	17	
Manganese	ne	ne	ne											na		na	na	na	na	na	na				8,970	7,170	8,110		8,110		10,000					na	na	
Nickel	100	310	2,040											267		28	43.0	34.3	31	31.5	71.9				na	na	na		na		na					< 20	< 20	
Zinc	2,000	4,700	nc											451		< 20	< 20	< 20	< 20	< 20	< 20				na	na	na		na		na					67	94	

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-13aR 46 to 56 ft bg													MW-13b 78.5 to 83.5 ft bg																MW-13b 78.5 to 83.5 ft bg	
	Concentration, ug/L																																	
				May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13
Volatile Organics, Method 8260															ns																ns			
Acetone	4,000	nc[g]	nc	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
Benzene	5	4.4	8.7	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na		na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na		na	na	na
sec- Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na		na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Carbon disulfide	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10									< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Chlorobenzene	100	27	136	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Chloroform	100	nc	nc	15	12	19	13	20	27	24	23	< 5.0	7.9	16		19	18	8.3	< 5	5	14	28	30	36	26	24	32	27	30	34	19	24		23	24	15
Chloromethane												< 10	< 10	< 10		< 10	< 10	< 10										< 10	< 10	< 10		< 10	< 10	< 10
Cyclohexane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dibromoethane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Dibromochloromethane	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane												< 10	< 10	< 10		< 10	< 10	< 10										< 10	< 10	< 10		< 10	< 10	< 10
1,1-Dichloroethane	4,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	100	32	161	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
1,2-Dichloropropane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Ethylbenzene	700	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Freon-113												< 10	< 10	< 10		< 10	< 10	< 10										< 10	< 10	< 10		< 10	< 10	< 10
2-Hexanone												< 10	< 10	< 10		< 10	< 10	< 10										< 10	< 10	< 10		< 10	< 10	< 10
Isopropylbenzene	5	207	nc	< 5	< 5	< 5	< 5	na	na	na	na	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na		na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Methyl acetate												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Methylcyclohexane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone												< 10	< 10	< 10		< 10	< 10	< 10										< 10	< 10	< 10		< 10	< 10	< 10
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na		na	na	na	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	1.3	3.9	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Toluene	1,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc									< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0										< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	200	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene												na	na	na		na	na	na										na	na	na		na	na	na
1,3,5-Trimethylbenzene												na	na	na		na	na	na										na	na	na		na	na	na
Vinyl Chloride	2	1.1	3.3	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	<5.0
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	<10	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	<10
Semi-Volatile Organics, Method 8270				ns	na	na	na	na	na	na	na	na	na	na	ns	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	ns	na	na	na
1,2-Dichlorobenzene	600	nc	nc																															
1,3-Dichlorobenzene	600	nc	nc																															
1,4-Dichlorobenzene	75	nc	nc																															
2,4-Dimethylphenol	700	nc	nc																															
Bis(2-Ethylhexyl)phthalate	6	nc	nc																															
2-Methylnaphthalene																																		
2-Methylphenol (o-cresol)	10	nc	nc																															
4-Methylphenol (m&p-cresol)	10	nc	nc																															
Cresol (o,m,p)	10	nc	nc																															
Naphthalene	20	nc	nc																															
Metals, Method 6010B/7470A										na		na	na	na	ns	na	na	na													na	na	na	ns	na	na	na
Barium	2,000	nc	nc	150	185	261	480	na	na		na								246	455	108	44.4	42	42.5	33.8											
Cadmium	5	7.8	51	< 5	< 5	< 5	< 5	na	na		na								< 5	< 5	na	< 5	< 5	< 5	< 5											
Chromium	100	47	310	< 10	15.9	36.5	951	563 J	< 10.0		na								22	50	< 10	< 10	< 10	< 10	< 10											
Copper	1,300	630	4,090	< 10	< 10	13.6	72.8	na	na		na								33	67	< 10	< 10	< 10	< 10	< 10											
Lead	15	15	15	< 10	< 10	< 10	< 10	na	na		na								< 10	26	< 10	< 10	< 10	< 10	< 10											
Manganese	ne	ne	ne	na	na	na	na	na	na		na								na	na	na	na	na	na	na											
Nickel	100	310	2,040	< 20	< 20	22	603	na	na		< 20								20	40	< 20	< 20	< 20	< 20	< 20											
Zinc	2,000	4,700	nc	< 20	< 20	60	117	na	na		na								81	243	< 20	39.7	< 20	< 20	< 20											

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-14 40 to 50 ft bg						MW-14b 70 to 80 ft bg																		MW-15 5 to 15 ft bg	MW-16 27 to 37 ft bg		MW-17 37 to 47 ft bg								
				Jun-02	Sep-03	May-04	Jul-06	Apr 07 - Oct 09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Jan-08	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Jun 02 - Apr 14	Jun-02	Sep 03 - Apr 14	Sep-03	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09
Volatile Organics, Method 8260					na			ns				ns	ns	ns												ns		ns							ns		
Acetone	4,000	nc[g]	nc	< 20		< 20	< 20				< 50				< 50	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50		< 20		< 20	< 20	< 20	< 50	< 20	< 50		< 50	< 50
Benzene	5	4.4	8.7	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.1	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 10		< 10	< 10				< 50				< 50	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50		< 10		< 10	< 10	< 10	< 50	< 10	< 50		< 50	< 50
n-Butylbenzene	5	626	4,088	na		na	na				na				na	na	na	na	na			na	na	na	na	na		na		na	na	na	na	na	na		na	na
sec-Butylbenzene	5	626	4,088	na		na	na				na				na	na	na	na	na			na	na	na	na	na		na		na	na	na	na	na	na		na	na
Carbon disulfide	4,000	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10							< 5.0	< 5.0									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0												
Chlorobenzene	100	27	136	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Chloroethane	10	nc	nc	< 5		< 10	< 10				< 10				< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10	< 10		< 5		< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
Chloroform	100	nc	nc	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				11	18	20	13	14	< 5.0	8.2	8.2	8.3	< 5.0	< 5.0	< 5.0		59		35	34	7.8	6.6	13	6.6		11.0	12
Chloromethane											< 10													< 10	< 10	< 10												
Cyclohexane											< 5.0													< 5.0	< 5.0	< 5.0												
1,2-Dibromo-3-chloropropane											< 5.0													< 5.0	< 5.0	< 5.0												
1,2-Dibromoethane											< 5.0													< 5.0	< 5.0	< 5.0												
Dibromochloromethane	100	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	na		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		na		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	na		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		na		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	na		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		na		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Dichlorodifluoromethane											< 10													< 10	< 10	< 10												
1,1-Dichloroethane	4,000	nc	nc	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9	< 5		< 5	< 5		< 5.0		< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
trans-1,2-Dichloroethene	100	32	161	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	< 10		< 10	< 10		< 10	< 10	< 10				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10		< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
1,2-Dichloropropane											< 5.0													< 5.0	< 5.0	< 5.0												
cis-1,3-Dichloropropene											< 5.0													< 5.0	< 5.0	< 5.0												
trans-1,3-Dichloropropene											< 5.0													< 5.0	< 5.0	< 5.0												
Ethylbenzene	700	nc	nc	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Freon-113											< 10													< 10	< 10	< 10												
2-Hexanone											< 10													< 10	< 10	< 10												
Isopropylbenzene	5	207	nc	na		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		na		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na		na	na				na				na	na	na	na	na			na	na	na	na	na		na		na	na	na	na	na	na		na	na
Methyl acetate											< 5.0													< 5.0	< 5.0	< 5.0												
Methyl tert-butyl ether											< 5.0													< 5.0	< 5.0	< 5.0												
Methylcyclohexane											< 5.0													< 5.0	< 5.0	< 5.0												
Methylene chloride	5	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
4-Methyl-2-pentanone											< 10													< 10	< 10	< 10												
Naphthalene	20	nc	nc	na		na	na				na				na	na	na	na	na			na	na	na	na	na		na		na	na	na	na	na	na		na	na
Styrene	100	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,1,2,2-Tetrachloroethane											< 5.0													< 5.0	< 5.0	< 5.0												
Tetrachloroethene	5	1.3	3.9	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Toluene	1,000	nc	nc	< 5		< 5	< 5			< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc								< 5.0											< 5.0	< 5.0	< 5.0	< 5.0	< 5.0												
1,1,1-Trichloroethane	200	nc	nc	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Trichloroethene	5	18	35	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc	na		< 5	< 5				< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0			< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		na		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
1,2,4-Trimethylbenzene											na											na	na	na														
1,3,5-Trimethylbenzene											na											na	na	na														
Vinyl Chloride	2	1.1	3.3	< 5		< 5	< 5		< 2.0	< 2.0	< 2.0				< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 5		< 5	< 5	< 5	< 2	< 2	< 2.0		< 2.0	< 2.0
m&p-Xylene	nc	nc	nc	< 5		< 10	< 10		< 10	< 10	< 10				< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0		< 5		< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10
o-Xylene	nc	nc	nc	< 5		< 5	< 5		< 5.0	< 5.0	< 5.0				< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5		< 5	< 5	< 5	< 5	< 5	< 5.0		< 5.0	< 5.0
Total Xylene	10,000	nc	nc	< 5		< 15	< 15		< 15	< 15	< 15				< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 10		< 5		< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	ns	na	na	na	ns	ns	ns	na	na	na	na	na	na	na	na	na	na	na	na	ns	na	ns	na	na	na	na	na	na	ns	na	na
1,2-Dichlorobenzene	600	nc	nc																																		
1,3-Dichlorobenzene	600	nc	nc																																		
1,4-Dichlorobenzene	75	nc	nc																																		
2,4-Dimethylphenol	700	nc	nc																																		
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																		
2-Methylnaphthalene																																					
2-Methylphenol (o-cresol)	10	nc	nc																																		
4-Methylphenol (m&p-cresol)	10	nc	nc																																		
Cresol (o,m,p)	10	nc	nc																																		
Naphthalene	20	nc	nc																																		
Metals, Method 6010B/7470A								ns	na	na	na	ns	ns	ns	na	na		na	na	na	na	na	na	na	na	na	ns		ns					na	ns	na	na
Barium	2,000	nc	nc	0.157	208	200	117										na											0.273		20.1	98.8	63.1	47.1	376				
Cadmium	5	7.8	51	< 0.005	< 5	< 5	< 5										< 5											< 0.005		na	< 5	< 5	< 5	< 5				
Chromium	100	47	310	< 0.010	12.3	10.5	142										< 10											0.039		14.3	< 10	14.8	< 10	34.4				
Copper	1,300	630	4,090	0.02	< 10	< 10	13.7										na											0.09		17.5	< 10	< 10	< 10	25.5				
Lead	15	15	15	< 0.010	14.3	< 10	< 10										< 10											0.029		< 10	< 10	< 10	< 10	10.5				
Manganese	ne	ne	ne	na	na	na	na										na											na		na	na	na	na	na				
Nickel	100	310	2,040	< 0.020	< 20	< 20	152										na											0.057		< 20	< 20	< 20	< 20	< 20				
Zinc	2,000	4,700	nc	0.039	73.6	52.1	43.4										na											0.213		< 20	< 20	< 20	< 20	266				

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-17 37 to 47 ft bg							MW-18 54 to 64 ft bgs							MW-19 31 to 41 ft												MW-20 33 to 43 bgs					MW-21 47 to 57 ft bgs		
	Concentration, ug/L																																			
				Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Aug-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct 09 - Apr 14	Jan-08	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-14	Oct-14	Apr-15
Volatile Organics, Method 8260									ns								ns																			
Acetone	4,000	nc[g]	nc	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50	< 20	< 50	< 50	< 50		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	<50	<50	<50	<50	<50	<50
Benzene	5	4.4	8.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50	< 10	< 50	< 50	< 50		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	<50	<50	<50	<50	<50	<50
n-Butylbenzene	5	626	4,088	na	na	na	na	na		na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	5	626	4,088	na	na	na	na	na		na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	4,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon Tetrachloride	5	4.9	10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	100	27	136	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	<10	<10	<10	<10	<10	<10
Chloroform	100	nc	nc	12	8.6	7.7	6.1	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane				< 10	< 10	< 10	< 10	< 10		< 10													< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Cyclohexane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,2-Dibromo-3-chloropropane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,2-Dibromoethane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Dibromochloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	600	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		31	17	75	< 5.0	5.0	< 5.0	7.1	< 5.0	35.0	< 5.0	24	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		5.1	< 5.0	13	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		8.6	5	19	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11.0	< 5.0	7.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane				< 10	< 10	< 10	< 10	< 10		< 10													< 10	< 10	< 10	< 10	< 10	< 10	< 10							
1,1-Dichloroethane	4,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	5	1.6	2.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene	7	103	524	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
cis-1,2-Dichloroethene	70	156	1,020	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	6.7	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,2-Dichloroethene	100	32	161	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	11.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dichloropropane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
cis-1,3-Dichloropropene				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0							
trans-1,3-Dichloropropene				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 10	< 10	< 5.0	< 5.0							
Ethylbenzene	700	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Freon-113				< 10	< 10	< 10	< 10	< 10		< 10													< 10	< 10	< 10	< 10	< 10	< 10	< 10							
2-Hexanone				< 10	< 10	< 10	< 10	< 10		< 10													< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Isopropylbenzene	5	207	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyl toluene	5	200	1,010	na	na	na	na	na		na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methyl acetate				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Methyl tert-butyl ether				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Methylcyclohexane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Methylene chloride	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone				< 10	< 10	< 10	< 10	< 10		< 10													< 10	< 10	< 10	< 10	< 10	< 10	< 10							
Naphthalene	20	nc	nc	na	na	na	na	na		na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
Tetrachloroethene	5	1.3	3.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	5.7	5.7	< 5.0	< 5.0	< 5.0		< 5	< 5.0	5.6	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Toluene	1,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	70	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0													< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0							
1,1,1-Trichloroethane	200	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene	5	18	35	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane	2,000	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene				na	na	na	na	na		na													na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene				na	na	na	na	na		na													na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl Chloride	2	1.1	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0		< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10		< 5.0	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene	nc	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0		< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15		< 10	< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 10	<10	<10	<10	<10	<10	<10	<10
Semi-Volatile Organics, Method 8270				na	na	na	na	na	ns	na	na	na	na	na	na	na	ns	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		na	na		na
1,2-Dichlorobenzene	600	nc	nc																																	
1,3-Dichlorobenzene	600	nc	nc																																	
1,4-Dichlorobenzene	75	nc	nc																																	
2,4-Dimethylphenol	700	nc	nc																																	
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																	
2-Methylnaphthalene																																				
2-Methylphenol (o-cresol)	10	nc	nc																																	
4-Methylphenol (m&p-cresol)	10	nc	nc																																	
Cresol (o,m,p)	10	nc	nc																																	
Naphthalene	20	nc	nc																																	
Metals, Method 6010B/7470A				na	na	na	na	na	ns	na				na	na	na	ns		na	na	na	na	na	na	na	na	na	na	na	na		na	na		na
Barium	2,000	nc	nc								111	< 20	< 20					73.6																		
Cadmium	5	7.8	51								< 5	< 5	< 5					< 5																		
Chromium	100	47	310								359	< 10	13.3					11.8																		
Copper	1,300	630	4,090								64.6	12.6	< 10					< 10																		
Lead	15	15	15								< 10	< 10	< 10					< 10																		
Manganese	ne	ne	ne								na	na	na					na																		
Nickel	100	310	2,040								176	77	71.2					84.3																		
Zinc	2,000	4,700	nc								64.8	< 20	< 20					44																		

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	OW-72 107 to 135 ft bg																								OW-74A 42 to 81 ft bg							
				Apr-01	May-01	Nov-01	May-02	Nov-02	May-03	May-04	Nov-04	May-05	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-01	May-01	Nov-01	May-02	Nov-02	May-03	May-04	Nov-04
Volatile Organics, Method 8260																																				
Acetone	4,000	nc[g]	nc	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200
Benzene	5	4.4	8.7	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Bromodichloromethane	100	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
2-Butanone	2,000	nc	nc	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	130.0	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200
n-Butylbenzene	5	626	4,088	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
sec-Butylbenzene	5	626	4,088	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Carbon disulfide	4,000	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Carbon Tetrachloride	5	4.9	10																	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Chlorobenzene	100	27	136	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Chloroethane	10	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Chloroform	100	nc	nc	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Chloromethane																				< 10	< 10	< 10	< 10	< 10	< 10	< 10										
Cyclohexane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromo-3-chloropropane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromoethane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Dibromochloromethane	100	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,2-Dichlorobenzene	600	nc	nc	36	41	16	< 10	< 10	< 10	< 10	< 50	< 50	8.0	7.9	8	< 5.0	11	< 5.0	< 5.0	11	17	9.4	12.0	10	9.1	7.0	18	19	16	16	10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,3-Dichlorobenzene	600	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,4-Dichlorobenzene	75	35	73	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Dichlorodifluoromethane																				< 10	< 10	< 10	< 10	< 10	< 10											
1,1-Dichloroethane	4,000	nc	nc	43	43	17	12	4	3	< 2	< 10	< 10	12	9.6	9.8	8.7	14	6.8	10	16	14	9.7	10.0	10	8.2	9.4	14	15	18	12	10	3	2	2	< 2	< 2	< 2	< 4
1,2-Dichloroethane	5	1.6	2.9	8	7	7	11	< 2	4	< 2	2.8 J	< 10	6.8	< 5	9.1	6.4	7.8	5.9	< 5	< 5.0	< 5.0	< 5.0	5.6	6.4	6.5	6.0	< 5.0	< 5.0	< 5.0	5.2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,1-Dichloroethene	7	103	524	11	10	< 2	6	< 2	< 2	2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
cis-1,2-Dichloroethene	70	156	1,020	2,600	2,900	1,300	660	270	180	400	150	490	1100	1200	750	530	1100	600	960	1,500	1,100	1,200	1,100	1,000	910	870	1,800	1,711	1,800	1,200	790	350	150	140	97	190	190	180
trans-1,2-Dichloroethene	100	32	161	28	31	51	< 2	< 2	< 2	5	< 10	< 10	7.6	10	< 5	< 5.0	10	< 5.0	7.4	12	12	7.4	6.7	6.3	<5.0	5.8	10.0	11.0	14	8.8	4	2	2	< 2	< 2	< 2	2	< 4
Total 1,2-Dichloroethene[h]	105	192	1,160	2,628	2,931	1,351	662	272	182	405	160	500	1107.6	1210	755	535	1110	605	967.4	1,512	1,112	1,207	1106.7	1006.3	915	875.8	1,810	1,810	1,814	1,208.8	794	352	152	142	99	192	192	184
1,2-Dichloropropane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
cis-1,3-Dichloropropene																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
trans-1,3-Dichloropropene																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Ethylbenzene	700	nc	nc	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Freon-113																				< 10	< 10	< 10	< 10	< 10	< 10	< 10										
2-Hexanone																				< 10	< 10	< 10	< 10	< 10	< 10	< 10										
Isopropylbenzene	5	207	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
p- Isopropyl toluene	5	200	1,010	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Methyl acetate																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methyl tert-butyl ether																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylcyclohexane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
4-Methyl-2-pentanone																				< 10	< 10	< 10	< 10	< 10	< 10	< 10										
Naphthalene	20	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,1,2,2-Tetrachloroethane																				< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
Tetrachloroethene	5	1.3	3.9	88	91	60	37	17	12	18	4 J	13	21	20	20	9.4	23	5.0	14	13	20	11	17	15	12	11	15	15	12	14	23	10	8	7	5	5	6	5
Toluene	1,000	nc	nc	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	20.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,2,4-Trichlorobenzene	70	nc	nc																	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0										
1,1,1-Trichloroethane	200	nc	nc	< 2	< 2	< 2	< 2	< 2	< 2	9	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,1,2-Trichloroethane	5	nc	nc	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 10	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Trichloroethene	5	18	35	360	360	250	140	49	45	72	23	54	92	93	67	43	80	29	44	58	71	44	47	41	34	31	49	46	54	38	130	60	33	31	22	25	28	24
Trichlorofluoromethane	2,000	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,2,4-Trimethylbenzene																				na	na	na	na	na	na	na	na	na	na								
1,3,5-Trimethylbenzene																				na	na	na	na	na	na	na	na	na	na								
Vinyl Chloride	2	1.1	3.3	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	< 2	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	2.2	7.4	< 2.0	< 2.0	2.0	<2.0	<2.0	< 2.0	< 2.0	3.6	<2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
m&p-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Total Xylene	10,000	nc	nc	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																																		
1,3-Dichlorobenzene	600	nc	nc																																		
1,4-Dichlorobenzene	75	nc	nc																																		
2,4-Dimethylphenol	700	nc	nc																																		
Bis(2-Ethylhexyl)phthalate	6	nc	nc																																		
2-Methylnaphthalene																																					
2-Methylphenol (o-cresol)	10	nc	nc																																		
4-Methylphenol (m&p-cresol)	10	nc	nc																																		
Cresol (o,m,p)	10	nc	nc																																		
Naphthalene	20	nc	nc																																		
Metals, Method 6010B/7470A																na	na	na	na	na	na	na	na	na	na	na	na		na								
Barium	2,000	nc	nc	60	60	60	50	50	60	60	60	70	74.0	64	62.9															60	60	80	70	80	70	7	70
Cadmium	5	7.8	51	8	6	< 5	< 5	< 5	10	< 5	20	< 5	< 5	< 5	< 5															< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chromium	100	47	310	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10															< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	1,300	630	4,090	130	200	160	120	60	50	50	30	30	75.3	51.4	60.9															50	30	< 20	< 20	< 20	< 20	< 20	< 20
Lead	15	15	15	20	30	15	< 15	< 15	< 15	< 15	< 15	< 15	< 10	< 10	< 10															30	< 15	< 15	< 15	< 15	< 15	< 15	< 15
Manganese	ne	ne	ne	na	na	na	na	na	na	na	na	na	na	na	na															na	na	na	na	na	na	na	na
Nickel	100	310	2,040	1,200	1,600	740	490	200	190	410	160	280	555	483	477															370	140	80	70	60	60	70	60
Zinc	2,000	4,700	nc	260	390	140	150	230	230	80	130	70	61.5	86.5	58.9															180	200	< 20	60	40	20	5	< 20

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	OW-74A 42 to 81 ft bg																		OW-74B 76 to 180 ft bg							
	Concentration, ug/L																												
				May-05	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-01	May-01	Nov-01	May-02	Nov-02	May-03	May-04	Nov-04
Volatile Organics, Method 8260																													
Acetone	4,000	nc[g]	nc	< 100	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100
Benzene	5	4.4	8.7	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromodichloromethane	100	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Butanone	2,000	nc	nc	< 100	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100
n-Butylbenzene	5	626	4,088	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10
sec-Butylbenzene	5	626	4,088	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide	4,000	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon Tetrachloride	5	4.9	10									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Chlorobenzene	100	27	136	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroethane	10	nc	nc	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	100	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10											
Cyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromo-3-chloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,2-Dibromoethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Dibromochloromethane	100	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dichlorobenzene	600	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	24	14	< 10	< 10	< 10	< 10	< 10	< 10
1,3-Dichlorobenzene	600	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,4-Dichlorobenzene	75	35	73	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Dichlorodifluoromethane												< 10	< 10	< 10	< 10	< 10	< 10	< 10											
1,1-Dichloroethane	4,000	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	26	18	< 2	< 2	< 2	< 2	< 2	< 2
1,2-Dichloroethane	5	1.6	2.9	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1-Dichloroethene	7	103	524	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	3	< 2	< 2	< 2	< 2	< 2	< 2
cis-1,2-Dichloroethene	70	156	1,020	4	31	170	180	120	150	64	120	150	210	200	180	120	100	74	180	160	240 J	140	1,800	1,300	15	18	32	170	< 2	200
trans-1,2-Dichloroethene	100	32	161	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7	5	< 2	< 2	< 2	< 2	< 2	< 2
Total 1,2-Dichloroethene[h]	105	192	1,160	6	36	175	185	125	155	69	125	155	215	205	185	125	105	79	185	165	240 J	140	1,807	1,305	17	20	34	172	< 4	202
1,2-Dichloropropane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
cis-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
trans-1,3-Dichloropropene												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Ethylbenzene	700	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Freon-113												< 10	< 10	< 10	< 10	< 10	< 10	< 10											
2-Hexanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10											
Isopropylbenzene	5	207	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
p-Isopropyl toluene	5	200	1,010	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl acetate												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methyl tert-butyl ether												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methylcyclohexane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Methylene chloride	5	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone												< 10	< 10	< 10	< 10	< 10	< 10	< 10											
Naphthalene	20	nc	nc	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Styrene	100	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane												< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
Tetrachloroethene	5	1.3	3.9	< 2	< 5	8	5.8	< 5.0	5.4	< 5.0	< 5.0	< 5.0	6.5	< 5.0	5.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	45	29	< 2	< 2	< 2	6	< 2	5
Toluene	1,000	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,2,4-Trichlorobenzene	70	nc	nc									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0											
1,1,1-Trichloroethane	200	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
1,1,2-Trichloroethane	5	nc	nc	< 2	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Trichloroethene	5	18	35	< 2	5.6	32	24	17	23	11	14	16	28	16	21	16	14	7.7	13	14	22	14	210	160	4	4	6	30	4	26
Trichlorofluoromethane	2,000	nc	nc	< 10	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2,4-Trimethylbenzene												na	na	na	na	na	na	na	na	na	na								
1,3,5-Trimethylbenzene												na	na	na	na	na	na	na	na	na	na								
Vinyl Chloride	2	1.1	3.3	< 10	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
m&p-Xylene	nc	nc	nc	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
o-Xylene	nc	nc	nc	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total Xylene	10,000	nc	nc	< 5	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc																											
1,3-Dichlorobenzene	600	nc	nc																											
1,4-Dichlorobenzene	75	nc	nc																											
2,4-Dimethylphenol	700	nc	nc																											
Bis(2-Ethylhexyl)phthalate	6	nc	nc																											
2-Methylnaphthalene																														
2-Methylphenol (o-cresol)	10	nc	nc																											
4-Methylphenol (m&p-cresol)	10	nc	nc																											
Cresol (o,m,p)	10	nc	nc																											
Naphthalene	20	nc	nc																											
Metals, Method 6010B/7470A								na	na	na	na	na	na	na	na	na	na	na	na	na		na							
Barium	2,000	nc	nc	30	32.1	80.2	86.5																20	20	20	20	20	50	30	50
Cadmium	5	7.8	51	< 5	< 5	< 5	< 5																< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chromium	100	47	310	< 10	< 10	< 10	< 10																< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Copper	1,300	630	4,090	< 20	26.1	< 10	< 10																50	70	< 20	< 20	< 20	< 20	< 20	< 20
Lead	15	15	15	< 15	< 10	< 10	< 10																280	220	< 15	< 15	< 15	< 15	< 15	< 15
Manganese	ne	ne	ne	na	na	na	na																na	na	na	na	na	na	na	na
Nickel	100	310	2,040	< 20	< 20	62.8	59.1																800	730	< 20	< 20	30	130	< 20	110
Zinc	2,000	4,700	nc	1,700	505	< 20	< 20																160	140	< 20	90	90	40	40	< 20

Table 3-3. Historical Groundwater Sampling Detections for 1998-2015
Former Olympic Manufacturing Site, Smyrna, GA

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-A 30-40 ft	MW-B 32-42 ft	MW-C 34-44 ft	MW-D 34-44 ft	SMW-1 24-39 ft			SMW-2 41-56 ft		
	Concentration, ug/L												
				Sep-06	Jul-06	Jul-06	Jan-08	Dec-09	Mar-15	Apr-15	Dec-09	Mar-15	Apr-15
Volatile Organics, Method 8260													
Acetone	4,000	nc[g]	nc	na	na	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5	4.4	8.7	na	na	< 5	20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
n-Butylbenzene	5	626	4,088	na	na	na							
sec- Butylbenzene	5	626	4,088	na	na	na							
Carbon disulfide	4,000	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10										
Chlorobenzene	100	27	136	na	na	< 5	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	10	nc	nc	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	100	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	5.5	8	5.6	5.5
Chloromethane													
Cyclohexane													
1,2-Dibromo-3-chloropropane													
1,2-Dibromoethane													
Dibromochloromethane	100	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	na	na	< 5	16	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	na	na	< 5	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane													
1,1-Dichloroethane	4,000	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	5	1.6	2.9	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	7	103	524	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	156	1,020	na	na	< 5	19	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	100	32	161	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene[h]	105	192	1,160	na	na	< 10	24	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dichloropropane													
cis-1,3-Dichloropropene													
trans-1,3-Dichloropropene													
Ethylbenzene	700	nc	nc	na	na	< 5	65	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Freon-113													
2-Hexanone													
Isopropylbenzene	5	207	nc	na	na	< 5	6.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	5	200	1,010	na	na	na							
Methyl acetate													
Methyl tert-butyl ether													
Methylcyclohexane													
Methylene chloride	5	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Methyl-2-pentanone													
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na
Styrene	100	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane													
Tetrachloroethene	5	1.3	3.9	110	< 5	< 5	< 5	23	44	31	8	< 5.0	< 5.0
Toluene	1,000	nc	nc	na	na	< 5	7.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	70	nc	nc										
1,1,1-Trichloroethane	200	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35	450	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	2,000	nc	nc	na	na	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trimethylbenzene													
1,3,5-Trimethylbenzene													
Vinyl Chloride	2	1.1	3.3	na	na	< 5	< 2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
m&p-Xylene	nc	nc	nc	na	na	< 10	75	< 10	< 10	< 10	< 10	< 10	< 10
o-Xylene	nc	nc	nc	na	na	< 5	220	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	na	na	< 15	295	< 15	< 15	< 15	< 15	< 15	< 15
Semi-Volatile Organics, Method 8270				na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	600	nc	nc				na	na	na	na	na	na	na
1,3-Dichlorobenzene	600	nc	nc										
1,4-Dichlorobenzene	75	nc	nc										
2,4-Dimethylphenol	700	nc	nc										
Bis(2-Ethylhexyl)phthalate	6	nc	nc										
2-Methylnaphthalene													
2-Methylphenol (o-cresol)	10	nc	nc										
4-Methylphenol (m&p-cresol)	10	nc	nc										
Cresol (o,m,p)	10	nc	nc										
Naphthalene	20	nc	nc										
Metals, Method 6010B/7470A							na	na	na	na	na	na	na
Barium	2,000	nc	nc	na	na	101							
Cadmium	5	7.8	51	< 5	< 5	< 5							
Chromium	100	47	310	na	na	10.2							
Copper	1,300	630	4,090	na	na	16							
Lead	15	15	15	na	na	14.2							
Manganese	ne	ne	ne	na	na	na							
Nickel	100	310	2,040	655	54	192							
Zinc	2,000	4,700	nc	na	na	26.9							

Footnotes:

[a] "nr" = Analytical reports not available to determine detection limits.

[b] "na" = Not analyzed for this parameter or by this method.

[c] detection limit. (Information based on current method of reporting. Original laboratory not available to confirm.)

[d] "NAV" = Not analyzed as a volatile. See semi-volatile result.

[e] "ns" indicates the well was not sampled during the event as it was not yet installed, or because there was insufficient water or well damage.

[f] NASV = Not reported as a semi-volatile. See volatile result.

[g] "nc" = Not calculated because Type 1 and 3 are already met, or because the RRS is based on the sum and not the individual isomers.

[h] Computed as Sum. RRS for cis- and trans- isomers still must be met.

[i] "E" indicates the concentration is estimated.

[j] "ne" = Standard not estabished as parameter not regulated under HSRA.

= Exceeds Type 1, Type 2, Type 3, and Type 4 RRSs.

Table 3-4. Recent Groundwater Geochemical Results
Former Olympic Manufacturing Site, Smyrna, Georgia

Parameter	Concentration, mg/L																																							
	MW-4a[a]								IW-4[a]								MW-6				MW-8																					
	Apr-07	Apr-10	Oct-10	Apr-11	Oct-13	Apr-14	Oct-14	Apr-15	Apr-08	Oct-08	Apr-09	Oct-09	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15
Methane	0.400	0.055	0.170	0.036	0.077	0.160	0.140	0.110	0.048	0.210	0.069	0.013	0.130	0.290	ns	0.190	0.130	0.160	0.360	0.260	0.160	na	0.063	0.062	0.110	0.032	0.033	0.047	0.130	0.690	0.094	na	0.082	0.021	0.053	0.063	0.084
Nitrate	0.54	< 2.5	< 0.25	< 0.25	<1.2	<0.25	<2.5	<0.50	< 2.5	na	< 2.5	< 0.25	< 0.25	< 1.2	ns	<2.5	<0.25	<0.25	<2.5	<0.25	< 5.0	na	< 2.5	< 0.25	< 0.25	< 0.25	< 0.25[UJ]	< 2.5	< 0.25	< 1.2	< 0.5	na	<1.2	<0.25	<0.25	<2.5	<0.25
Sulfate	58	280	67	97	110	130	79	89	280	na	190	210	45	26	ns	230[J]	2.7	3.4	<10	3.7	150	na	150	130	120	97	51[J]	99	110	110	120	na	120	65	81	83	62
Total Organic Carbon	37.2	52.4	31.0	33.1	32.5	33.0	36.8	38.8	57.6	na	42.0	37.5	21.0	27.9	ns	34.6	3.21	2.10	3.72	7.00	< 100	na	54.7	36.9	48.5	26.9	19.6	24.0	27.0	31.1	43.3	na	60.2	15.6	19.9	26.5	24.8
Manganese	4.09	58.7	23.8	21.4	na	na	na	na	50.3	na	na	1.62[J]	11.9	95.7	ns	26.1	na	na	na	na	185	14.8	11.1	25.1	na	12.1[J]	6.92	12.60	16.9	15.6	16.8	na	15.7	11.1	11.6	15.6	16.1
pH (S.U.)	7.18[e]	6.88	6.63	6.63	6.48	6.56	6.33	6.47	6.76	7.41	6.92	6.48	6.68	6.90	ns	6.41	6.31	6.30	6.51	6.48	6.89[e]	6.4	6.47	6.30	6.49	6.42	6.49	6.64	6.73	6.54	6.50	6.71	6.27	6.51	6.54	6.60	6.52
Dissolved Oxygen	8.41[e]	2.69	0.17	4.45	0.32	0.17	0.45	0.14	0.33	7.03	0.47	0.65	14.79	3.52	ns	0.14	0.28	0.30	0.73	0.22	8.4[e]	0.65	0.40	1.08	0.54	0.56	0.31	0.30	3.91	4.86	0.19	0.15	0.24	0.31	0.26	0.91	0.12
Potassium Permanganate	< 0.89	na	na	na	na	na	na	na	270	12	< 0.89	< 0.89	na	na	ns	na	na	na	na	na	800	1.8	< 0.89	1	< 0.89	< 0.89	na	na	na	na	na	na	na	na	na	na	na
Ferrous Iron	< 0.1	< 0.100	< 1.0[UJ]	< 0.100	< 0.1[UJ]	1.28	0.2	<0.100	< 10	na	< 0.100	< 0.100	< 0.100	< 0.100	ns	0.609[J]	1.06	2.05	< 0.500	< 0.500	< 100	na	< 0.1	< 1.00	< 0.100[UJ]	< 0.100	<0.100	< 0.100	< 0.100	< 0.100	< 0.100	na	<0.100	<0.100	<0.100	<0.100	<0.100
Oxidation-Reduction Potential (millivolts)	369.2			35	-130	-142	-135	-133.8	688						ns	-83	0	57	-67	-34.7	696	270										118	na	-52	45	58.8	64.6	27.5

Parameter	Concentration, mg/L																														
	MW-12[b]																				MW-19										
	Apr-07	May-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Apr-13	Oct-13	Apr-14	Oct-14	Apr-15	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13
Methane	0.74	0.74	na	0.13	ns[d]	0.130	0.054	0.310	1.100	0.210	ns	na	ns	0.027	0.027	0.170	0.110	0.260	0.120	< 0.004	0.021	< 0.004	0.015	<0.004	0.140	0.033	0.140	0.023
Nitrate	< 0.25	< 0.25	na	< 0.25	ns	< 0.25[UJ]	< 0.25	< 0.25	< 0.25	< 0.25	ns	na	ns	<0.25	<0.25	<0.25	<0.25	< 0.25	< 0.25	< 0.25[UR]	< 0.25	< 0.25	< 0.25	< 0.25	<0.25	<0.25	<0.25	<0.25
Sulfate	< 1.0	< 1.0	na	1.3	ns	6.9	11	32	< 1.0	< 10.0	ns	na	ns	19	19	10	13	<1.0	4.4	65	51	37	31	24	25	23	29	21
Total Organic Carbon	6.07	6.07	na	6.49	ns	8.90	12.6	7.98	2.90	4.11	ns	na	ns	8.92	8.92	5.17	2.77	6.38	4.93	5.32	5.66	6.21	2.10	2.26	5.38	3.1	5.81	3.93
Manganese	7.63	7.63	8.45	7.02	ns	na	7.83	8.97	7.17	8.11	ns	na	ns	10.0	10.0	na	na	na	na	na	na	na	na	na	na	na	na	na
pH (S.U.)	6.33[e]	6.33[e]	6.16	6.30	ns	6.39	6.51	6.38	6.49	6.61	ns	6.38	ns	6.37	6.37	6.66	6.52	6.35	6.45	4.72	5.58	5.71	6.18	5.82	6.36	5.87	6.1	5.98
Dissolved Oxygen	8.05[e]	8.05[e]	0.96	0.44	ns	2.45	1.32	0.38	0.35	3.91	ns	1.02	ns	0.31	0.31	0.28	0.29	0.23	0.12	1.40	0.69	0.37	0.42	1.40	2.26	0.20	0.2	4.01
Potassium Permanganate	12	12	14	< 0.89	ns	2.2[J]	< 0.89	na	na	na	ns	na	ns	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ferrous Iron	46.3	46.3	na	52.4	ns	49.3[J]	51.3	0.464	30.5	30.8	ns	na	ns	38.4	38.4	26.4	4.6	19.7	4.78	2.25[J]	8.51	< 10.0	9.60	7.55	2.80	8.66[J]	3.75	3.41
Oxidation-Reduction Potential (millivolts)	-133		-85										ns	-98	-98	-138	-136	-126	-140.4	239	-22						-127	54

[a] MW-4a had been dry or had inadequate sample volume from May 2007 to Oct 2009, in Oct 2011, and in April 2013 due to regional drought. Thus, IW-4 was sampled as a surrogate for MW-4a during that period. In October 2008, the limited sample volume available in IW-4 prevented analysis for TOC, nitrate, sulfate, manganese, and ferrous iron. In October 2012, IW-4 and MW-4a were not sampled due to insufficient water.

[b] MW-12 not sampled in Oct 2011 because unable to obtain access to well from CSX Transportation, or in October 2012 due to insufficient water.

[c] "na" indicates parameter not analyzed for.

[d] "ns" indicates well not sampled in this event due to insufficient water.

[e] Water quality parameters measured at the lab in spring 2007. All other results measured using a field instrument.

[UJ] Value qualified as undetected with an estimated limit of detection.

[UR] Value qualified as unusable due to sample hold time exceedance.

[J] Value qualified as estimated.

Table 5-1. Brown and Caldwell Billing and Services from December 19, 2014 to June 18, 2015
Former Olympic Manufacturing Site, Smyrna, Georgia

Month, Person	Role	Hours Billed	Services Provided
December 19,2014			
Trish	Project Manager	11.00	Report Preparation, Project Management
Elaine	Admin Assistant	5.25	Report Preparation
Ryan	Scientist II	1.00	Support w/ELUCs
Rhona	Project Assistant	2.50	Administrative
	Labor Subtotal, Hours	**19.75**	
	Subs and Expenses	**$79.00**	
January, 2015			
Trish	Project Manager	12.25	Plan Next Steps, Project Management
Dale	Senior Reviewer	0.50	Project Review
Elaine	Admin Assistant	3.00	Report Preparation
Deborah	Admin Assistant	0.50	Administrative
Rhona	Project Assistant	0.75	Administrative
Jacob	Regional Biller	0.75	Administrative
	Labor Subtotal, Hours	**17.75**	
	Subs and Expenses	**$333.50**	
February, 2015			
Trish	Project Manager	6.75	Support w/ELUCs
Rhona	Project Assistant	1.75	Administrative
Dale	Senior Reviewer	0.50	Project Review
	Labor Subtotal, Hours	**9.00**	
	Subs and Expenses	**$626.63**	
March, 2015			
Trish	Project Manager	19.75	Groundwater Sampling, Support w/ELUCs
George	Geologist I	27.25	Groundwater Sampling, Report Preparation
Sarah	Scientist III	0.75	Data Validation
Arlette	Engineer I	1.00	Data Analysis & Report Preparation
Gregory	Managing Geol/Hydrogeologist	6.00	Groundwater Modeling
Brian	Geologist II	3.25	Groundwater Sampling, Support w/ELUCs, Report Preparation
Rhona	Project Assistant	0.25	Administrative
Terri	Admin Assistant	0.75	Administrative
Lydia	Health & Safety Risk Mgr.	2.00	Health and Safety Plan Review
Eileen	Scientist II	0.50	Data Analysis & Report Preparation
Jake	Regional Biller	1.50	Administrative
	Labor Subtotal, Hours	**63.00**	
	Subs and Expenses	**$487.63**	

Table 5-1. Brown and Caldwell Billing and Services from December 19, 2014 to June 18, 2015
Former Olympic Manufacturing Site, Smyrna, Georgia

Month, Person	Role	Hours Billed	Services Provided
April, 2015			
Trish	Project Manager	16.50	Groundwater Sampling, Support w/ELUCs
Sarah	Scientist III	1.25	Data Validation
Gregory	Managing Geol/Hydrogeologist	34.00	Groundwater Modeling
Dale	Senior Reviewer	0.50	Project Review
Brian	Geologist II	45.25	Groundwater Sampling, Support w/ELUCs, Report Preparation
George	Geologist I	34.00	Groundwater Sampling, Report Preparation
Eileen	Scientist II	1.50	Data Analysis & Report Preparation
Arlette	Engineer I	10.75	Data Analysis & Report Preparation
Jake	Regional Biller	0.50	Administrative
Rhona	Project Assistant	1.00	Administrative
	Labor Subtotal, Hours	**145.25**	
	Subs and Expenses	**$5,149.82**	
May, 2015			
Trish	Project Manager	12.00	ELUC Communications, Data Analysis & Report Preparation
Gregory	Managing Geol/Hydrogeologist	29.00	Groundwater Modeling
Dale	Senior Reviewer	0.75	Project Review
Brian	Geologist II	1.50	Groundwater Sampling, Support w/ELUCs, Report Preparation
George	Geologist I	1.00	Support w/ELUCs, Report Preparation
Elaine	Admin Assistant	1.75	Report Preparation
Deborah	Admin Assistant	1.75	Administrative
Jake	Regional Biller	1.00	Administrative
Rhona	Project Assistant	0.50	Administrative
	Labor Subtotal, Hours	**49.25**	
	Subs and Expenses	**$8,126.12**	
June 1-25, 2015			
Trish	Project Manager	26.75	ELUC Communications, Data Analysis & Report Preparation
Jeffrey	Managing Geol/Hydrogeologist	1.50	Groundwater Modeling
Gregory	Managing Geol/Hydrogeologist	29.00	Groundwater Modeling
Lori	Engineer I	5.75	Data Analysis & Report Prep
Brian	Geologist II	5.00	Data Analysis & Report Preparation
Terri	Admin Assistant	1.75	Administrative
Jake	Regional Biller	1.00	Administrative
Candice	Project Assistant	0.25	Administrative
Elaine	Admin Assistant	2.25	Report Preparation
	Labor Subtotal, Hours	**73.25**	
	Subs and Expenses	**$293.00**	

Appendix A: Groundwater Sampling Field Data Sheets *(on CD Rom)*

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: ~~SMW-1~~ SMW-1

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Skala

Project Location: Smyrna GA Weather: ~70° Sunny

2. WELL DATA

Date Measured: 4-6-15 Time: AM Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: ~~40.39~~ feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 33.38 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 5.62 feet Well Volume: 0.94 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-8-15 Time: 0835

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☑ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 2.81 gallons SX = 4.7

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Equipment Model(s)
1. 1 3/4 bladder
2. YSI
3. LaMotte
4.

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0840	.3	4.44	18.60	.083	82.7	7.94	67.5	35.11	
0850	.6	4.68	18.59	.091	108.4	6.99	90.7	35.43	2 3/4 refill/discharge
0900	1.0	4.59	18.59	.087	110.9	6.46	41.1	35.43	
0910	1.5	4.64	18.63	.082	120.8	6.16	30.6	35.43	
0920	2.0	4.66	18.68	.082	131.4	6.13	24.1	35.43	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☑ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 15098-SMW-1 Sample Date: 4-8-15 Sample Time: 1020 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☑ Yes ☐ No ID: 15098-EB # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

EB at 1040

intake at ~36 ft, halfway through water column

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: SMW-8 9

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0930	2.5	4.77	18.79	.084	139.4	5.88	16.2	35.42	
0940	3.0	4.97	19.11	.085	139.2	5.82	11.1	35.43	
0950	3.5	5.00	19.26	.086	144.3	5.65	9.85	35.43	
1000	4.0	5.04	19.34	.087	149.2	5.69	5.41	35.43	
1010	4.5	5.10	19.42	.087	150.2	5.74	8.73	35.43	
1020	5.0	5.09	19.52	.087	152.7	5.81	6.11	35.43	
				1020 sample					
				5 well vol					

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: SMW-2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steele

Project Location: Smyrna, GA Weather: Cloudy ~ 65°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐ Yes ☑ No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 56.35 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 52.19 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: — feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 4.16 feet Well Volume: 0.69 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.7.15 Time: 0900

Purge Method: ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 2.08 gallons 5x = 3.45

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min

Equipment Model(s)
1. QED - Pump
2. MP-50
3. YSI-556
4. Lamotte 2020

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0910	0.50	5.39	18.71	0.096	62.8	1.00	81.4	52.20	
0920	1.00	5.31	18.77	0.090	63.1	0.87	39.3	52.20	
0930	1.30	5.30	18.78	0.090	63.9	0.81	30.5	52.20	
0940	1.75	5.31	18.76	0.090	64.8	0.73	16.2	52.20	
0950	2.00	5.31	18.80	0.090	66.3	0.81	9.08	52.20	

Purge data continued on next sheet? ☑

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☑ No

Sample ID: 15097-SMW-2 Sample Date: 4.7.15 Sample Time: 1025 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Equipment Blank Collected? ☑ Yes ☐ No ID: 15097-EB @ 1045 # of Containers: 2

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at 52.50 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: SMW-2

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1000	2.5	5.31	18.81	0.090	68.2	0.76	9.48	52.20	
1010	3.0	5.32	18.81	0.091	69.8	0.74	8.23	52.20	
1020	3.5	5.32	18.78	0.091	71.5	0.77	5.61	52.20	
1025	collect sample								

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-2

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steel

Project Location: Smyrna GA Weather: Sunny ~ 65°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐Yes ☑No

Casing Diameter: 2 inches Type: ☑PVC ☐Stainless ☐Galv. Steel ☐Teflon® ☐Other: _____

Screen Diameter: 2 inches Type: ☑PVC ☐Stainless ☐Galv. Steel ☐Teflon® ☐Other: _____

Total Depth of Well: 40 feet From: ☑Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Depth to Static Water: 31.30 feet From: ☑Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Depth to Product: — feet From: ☐Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Length of Water Column: 8.7 feet Well Volume: 1.45 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.8.15 Time: 0833

Purge Method: ☐ Bailer, Size: _____ ☑Bladder Pump ☐2" Sub. Pump ☐4" Sub. Pump ☐Centrifugal Pump ☐Peristaltic Pump ☐Inertial Lift Pump ☐Other: _____

Materials: Pump/Bailer ☐Polyethylene ☑Stainless ☐PVC ☐Teflon® ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☑Field-Cleaned ☐Disposable

Materials: Rope/Tubing ☑Polyethylene ☐Polypropylene ☐Teflon® ☐Nylon ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☐Field-Cleaned ☑Disposable

Volume to Purge (minimum): 3 well volumes or 4.35 gallons 5x = 7.26

Was well purged dry? ☐Yes ☐No Pumping Rate: _____ gal/min

Equipment Model(s)
1. QED Bladder
2. MP-50
3. YSI-556
4. Lamotte 2020

Calibrated? ☑Yes ☐No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0844 ~~0833~~	0.75	5.32	17.62	0.138	114.5	1.06	27.5	32.4	
0854	1.00	5.35	17.39	0.139	119.0	0.88	22.7	32.9	
0904	1.10	5.41	17.43	0.139	122.1	0.80	15.5	32.8	
0914	1.40	5.44	17.49	0.140	126.5	0.76	13.6	32.78	
0924	1.60	5.46	17.74	0.141	131.3	0.70	11.6	32.8	

Purge data continued on next sheet? ☑

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☑Bladder Pump ☐2" Sub. Pump ☐4" Sub. Pump ☐Centrifugal Pump ☐Peristaltic Pump ☐Inertial Lift Pump ☐Other: _____

Materials: Pump/Bailer ☐Polyethylene ☑Stainless ☐PVC ☐Teflon® ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☑Field-Cleaned ☐Disposable

Materials: Tubing/Rope ☑Polyethylene ☐Polypropylene ☐Teflon® ☐Nylon ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☐Field-Cleaned ☑Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐Yes ☐No

Sample ID: 15098-MW-2 Sample Date: 4.8.15 Sample Time: 1100 # of Containers: 2

Duplicate Sample Collected? ☐Yes ☑No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐Yes ☑No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at 33.50'. Turbidity stable around 12.4 NTU. Not sampling for metals.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-2

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0934	1.80	5.46	17.89	0.142	134.8	0.67	11.7	33.1	
0944	2.20	5.48	18.00	0.142	137.5	0.63	12.0	33.25	
0954	2.50	5.50	18.10	0.143	139.5	0.60	11.5	33.35	
1004	3.00	5.51	18.17	0.144	141.8	0.59	12.0	33.30	
1014	3.25	5.53	18.24	0.144	142.7	0.57	12.8	33.40	
1024	3.50	5.54	18.38	0.146	144.7	0.54	14.0	33.40	
1034	3.75	5.53	18.44	0.146	146.3	0.52	13.3	33.40	
1044	4.00	5.56	18.69	0.147	146.4	0.50	12.6	33.40	
1054	4.40	5.57	18.89	0.148	146.6	0.47	12.45	33.40	
1100	collect sample								

Purge data continued on next sheet? ☐

2 / 2

FORM GW-2 (Rev 11.March.10 - sej)

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4a

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hollshire Brands Personnel: Brian Steele

Project Location: Smyrna GA Weather: Sunny ~ 70°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐ Yes ☒ No

Casing Diameter: 2 inches Type: ☒ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☒ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 46 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 42.23 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: — feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 3.77 feet Well Volume: 0.62 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.9.15 Time: 0905

Equipment Model(s): 1. QED - Bladder 2. MP-50 3. 451-556 4. Lamotte 2020

Purge Method: ☐ Bailer, Size: _____ ☒ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☒ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☒ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☒ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☒ Disposable

Volume to Purge (minimum): 3 well volumes or 1.88 gallons 5x = 3.14

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min Calibrated? ☒ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0915	0.40	6.42	19.58	0.888	-83.0	0.51	17.3	42.25	
0925	0.60	6.44	19.39	0.890	-101.1	0.39	11.74	42.25	
0935	0.75	6.46	19.65	0.893	-111.4	0.27	6.01	42.25	
0945	1.00	6.46	19.74	0.892	-117.8	0.21	3.32	42.25	
0955	1.20	6.47	19.76	0.895	-122.4	0.19	2.03	42.25	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☒ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☒ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☒ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☒ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☒ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☒ No

Sample ID: 15099-MW-4a Sample Date: 4.9.15 Sample Time: 1040 # of Containers: 7

Duplicate Sample Collected? ☐ Yes ☒ No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐ Yes ☒ No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at 42.50'

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4a

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1005	1.40	6.47	19.99	0.897	-127.2	0.17	1.76	42.25	
1015	1.50	6.46	19.75	0.899	-129.4	0.16	1.04	42.25	
1025	1.75	6.47	19.74	0.902	-133.4	0.15	0.97	42.25	
1035	2.00	6.47	20.07	0.901	-133.8	0.14	0.75	42.25	
1040	collect sample								

Purge data continued on next sheet? ☐

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4b

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steele

Project Location: Smyrna, GA Weather: Light rain 60°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐ Yes ☑ No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 101 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 46.23 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: — feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 54.77 feet Well Volume: 9.14 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.6.15 Time: 0934

Purge Method: ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): _____ well volumes or _____ gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min

Equipment Model(s)
1. Geo Pump
2. YSI-556
3. Lamotte 2020
4. Horiba U-22

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0934	0.10	5.90	14.63	0.207	23.6	2.12	12.7	46.45	
0944	0.25	7.82	16.98	0.397	-71.1	0.53	22.7	46.50	
0954	0.75	7.92	17.30	0.398	-109.8	0.35	9.51	48.3	
1004	1.00	7.69	16.87	0.394	-124.9	0.31	5.77	49.5	
1014	1.20	7.53	16.94	0.390	-135.6	0.27	5.44	51.7	

Purge data continued on next sheet? ☑

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☐ No

Sample ID: 15096-MW-4b Sample Date: 4.6.15 Sample Time: 1050 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at 95', micro purging method used.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4b

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1025	1.40	7.49	17.08	0.388	-145.1	0.25	5.30	52.0	
1035	1.70	7.46	17.13	0.386	-154.6	0.23	5.17	52.1	
1045	1.85	7.45	17.22	0.384	-170.7	0.22	4.99	51.9	
1050	collect sample								

Purge ~~data continued~~ on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-6

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: SIGIS

Project Location: Smyrna GA Weather:

2. WELL DATA

Date Measured: 4-6-15 Time: AM Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches — Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches — Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: 45 feet — From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 23.34 feet — From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet — From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 21.66 feet — Well Volume: 3.62 gal — Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-6-15 Time: 1200

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 10.85 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Equipment Model(s): 1. YSI 2. GeoSub 3. 4.

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1205	2.0	5.98	20.13	.107	-13.8	0.93	90.3	23.71	pump issue
1210	3.0	5.87	20.29	.110	-10.6	1.06	82.1	23.71	fixed at 1215
1215	4.5	6.01	20.44	.140	-9.9	0.87	61.4	23.74	
1220	7.0	6.31	20.74	.227	-37.2	0.38	26.8	23.85	
1225	10.0	6.41	20.94	.241	-52.6	0.29	10.91	23.91	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☐ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 150906-MW-6 Sample Date: 4-6-15 Sample Time: 1240 # of Containers: 8 7

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☐ Yes ☑ No ID: # of Containers:

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

intake at ~40 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-6

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1230	13.0	6.48	20.99	.241	-65.9	.21	6.91	23.95	
1235	17.0	6.49	21.10	.245	-68.9	.25	4.31	24.11	
1240	21.0	6.48	21.13	.240	-34.7	.22	5.91	24.11	
				1240	Sample				
					3 well vol				

Purge data continued on next sheet? ☐

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-8

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steele

Project Location: Smyrna GA Weather: sunny ~ 95°F

2. WELL DATA

Date Measured: 4.6.15 Time: _____ Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☑PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 55 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 44.17 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: — feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 10.83 feet Well Volume: 1.80 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.8.15 Time: 1220

Equipment Model(s)

1. QED-Pump
2. MP-50
3. YSI-556
4. Lamotte 2020

Purge Method: ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☑ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 5.42 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1230	0.50	6.43	20.60	0.792	105.7	0.50	22.9	44.25	
1240	0.80	6.46	20.28	0.759	95.0	0.33	15.8	44.25	
1250	1.25	6.47	20.23	0.772	85.9	0.26	12.01	44.25	
1300	~~2.00~~ 1.75	6.50	20.64	0.779	76.9	0.22	8.10	44.25	
1310	2.00	6.50	20.55	0.787	69.8	0.20	6.52	44.25	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☐ No

Sample ID: 15098-MW-8 Sample Date: 4.8.15 Sample Time: 1445 # of Containers: 8

Duplicate Sample Collected? ☑ Yes ☐ No ID: 15098-MW-30 @ 1200 # of Containers: 3

Equipment Blank Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at 44.50 ft.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-8

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1320	2.5	6.51	20.25	0.794	61.8	0.17	5.45	44.25	
1330	2.8	6.52	20.59	0.799	54.7	0.16	4.67	44.25	
1340	3.25	6.51	20.64	0.797	59.2	0.15	3.69	44.25	
1350	3.75	6.52	20.57	0.801	46.5	0.15	4.60	44.25	
1400	4.00	6.52	20.75	0.800	41.2	0.14	2.22	44.25	
1410	4.5	6.53	20.65	0.802	37.3	0.13	1.95	44.25	
1420	4.80	6.53	20.72	0.802	33.5	0.13	2.40	44.25	
1430	5.25	6.52	20.66	0.800	31.2	0.13	3.03	44.25	
1440	5.50	6.52	20.88	0.800	27.5	0.12	1.72	44.25	
1445	collect sample								

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-8 9a

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Skala

Project Location: Smyrna GA Weather: ~80° Sunny

2. WELL DATA

Date Measured: 4-6-15 Time: Am Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: ~~35~~ 28 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 19.32 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 8.66 feet Well Volume: 1.44 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-8-15 Time: 1205

Equipment Model(s)

1. YSI
2. 1 3/4 bladder
3. LaMotte
4.

Purge Method: ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 4.34 gallons Sx = 7.2

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1216	1.25	4.84	20.22	.114	60.6	4.40	44.1	19.41	
1220	1.25	5.08	20.11	.139	84.7	1.29	25.0	19.41	
1230	1.75	5.20	20.02	.138	75.8	1.02	15.2	19.52	
1240	2.40	5.36	20.07	.151	65.9	0.67	11.4	19.54	
1250	3.00	5.60	20.09	.178	60.2	0.50	7.77	19.62	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☑ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☑ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☐ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No ?

Sample ID: 15098-MW-9a Sample Date: 4-8-15 Sample Time: 1420 # of Containers: 2

Duplicate Sample Collected? ☑ Yes ☐ No ID: 15098-MW-99 # of Containers: 2

Equipment Blank Collected? ☐ Yes ☐ No ID: # of Containers:

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

Intake @ ~ 23 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-9a

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1300	3.5	5.70	19.94	.200	57.7	.40	5.51	19.62	
1310	4.0	5.82	20.07	.221	53.2	.35	4.08	19.62	
1320	4.5	5.90	20.15	.240	52.3	.31	3.13	19.62	
1330	5.0	5.98	20.10	.256	51.3	.26	3.47	19.62	
1340	5.5	6.04	20.12	.275	45.3	.24	2.98	19.62	
1350	6.0	6.03	20.17	.285	42.4	.21	2.13	19.62	
1400	6.5	6.09	20.14	.300	37.7	.20	3.20	19.62	
1410	7.0	6.11	20.18	.312	36.3	.22	3.49	19.62	
1420	7.5	6.11	20.11	.320	33.6	.20	2.19	19.62	
			Sample 1420						
				5 well vol					

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-9b

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Sara Lee Personnel: SMH

Project Location: _____ Weather: 70° overcast

2. WELL DATA

Date Measured: 4-6-15 Time: Am Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 58.55 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 19.32 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: _____ feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 39.23 feet Well Volume: 36.55 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-07-15 Time: 1115

Purge Method: ☐ Bailer, Size: _____ ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☑ Other: _____ ☑ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 19.65 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min

Equipment Model(s)
1. YSI
2. GeoSub
3. LaMotte
4. _____

Calibrated? ☐ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1120	2.5	8.92	20.05	.525	32.6	2.78	36.0	30.54	slower pump
1130	5.0	7.48	20.18	.904	-50.6	0.40	22.1	30.11	
1140	7.0	7.26	20.32	.968	-129.5	0.15	14.2	30.11	
1150	9.0	7.21	20.40	.973	-140.5	0.15	6.89	30.11	
1200	11.0	7.20	20.45	.971	-151.8	0.12	11.50	30.11	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☐ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☑ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☐ No

Sample ID: 15097-mw9b Sample Date: 4-7-15 Sample Time: 1240 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Geochemical Analyses
Ferrous Iron: _____ mg/L
DO: _____ mg/L
Nitrate: _____ mg/L
Sulfate: _____ mg/L
Alkalinity: _____ mg/L

5. COMMENTS

Intake at ~31 ft btoc

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-9b

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1210	14.0	7.19	20.41	.963	-158.0	.11	8.26	30.11	
1220	17.0	7.17	20.49	.957	-161.6	.09	5.41	30.45	
1230	20.0	7.17	20.39	.957	-130.8	.05	4.32	30.45	
1240	22.0	7.16	20.41	.957	-131.5	.08	2.65	30.45	
				1240 Sample					

Purge data continued on next sheet? ☐

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-11

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: SIGIC

Project Location: Smyrna GA Weather: 70° Overcast

2. WELL DATA

Date Measured: 4-6-15 Time: Am Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: 38 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 23.49 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 14.51 feet Well Volume: 2.42 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-6-15 Time: 1435

Equipment Model(s)

1. YSI
2. GeoSub
3.
4.

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 7.26 gallons 5x = 12.1

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1440	3.0	5.81	17.42	.397	-59.3	.15	27.1	25.34	
1445	6.0	5.85	17.42	.351	-61.6	.12	9.99	25.34	
1450	9.0	5.93	17.44	.343	-69.8	.16	8.71	25.34	
1455	12.0	5.99	17.43	.344	-77.3	.16	5.04	25.34	
1500	15.0	5.98	17.44	.343	-81.3	.18	4.11	25.34	Stability

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 1509GMW-11 Sample Date: 4-6-15 Sample Time: 1500 # of Containers: 3

Duplicate Sample Collected? ☐ Yes ☐ No ID: — # of Containers:

Equipment Blank Collected? ☑ Yes ☐ No ID: 1509G-EB # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

intake at ~34 ft

VOCs only

EB at 1530

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-12

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steele

Project Location: Smyrna GA Weather: Cloudy 70°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐Yes ☑No

Casing Diameter: 2 inches Type: ☑PVC ☐Stainless ☐Galv. Steel ☐Teflon® ☐Other: _____

Screen Diameter: 2 inches Type: ☑PVC ☐Stainless ☐Galv. Steel ☐Teflon® ☐Other: _____

Total Depth of Well: 46 feet From: ☑Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Depth to Static Water: 39.60 feet From: ☑Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Depth to Product: — feet From: ☐Top of Well Casing (TOC) ☐Top of Protective Casing ☐Other: _____

Length of Water Column: 6.4 feet Well Volume: 1.06 gal Screened Interval (from GS): _____

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.7.15 Time: 1142

Purge Method: ☐Bailer, Size: _____ ☑Bladder Pump ☐2" Sub. Pump ☐4" Sub. Pump ☐Centrifugal Pump ☐Peristaltic Pump ☐Inertial Lift Pump ☐Other: _____

Materials: (Pump/Bailer) ☐Polyethylene ☑Stainless ☐PVC ☐Teflon® ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☑Field-Cleaned ☐Disposable

Materials: Rope/(Tubing) ☑Polyethylene ☐Polypropylene ☐Teflon® ☐Nylon ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☐Field-Cleaned ☑Disposable

Volume to Purge (minimum): 3 well volumes or 3.20 gallons 5x = 5.34

Was well purged dry? ☐Yes ☐No Pumping Rate: _____ gal/min

Equipment Model(s)
1. QED Pump
2. MP-50
3. YSI-556
4. Horiba U-52 MW Lanoth 2020

Calibrated? ☑Yes ☐No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1152	0.20	6.19	18.43	0.351	-87.7	0.43	24.6	39.63	
1202	0.75	6.29	18.28	0.356	-111.2	0.32	16.1	39.63	
1212	1.00	6.33	18.27	0.355	-118.8	0.25	7.24	39.68	
1222	1.5	6.36	18.21	0.353	-123.9	0.22	6.10	39.68	
1232	2.0	6.38	18.29	0.350	-127.3	0.20	3.59	39.73	

Purge data continued on next sheet? ☑

4. SAMPLING DATA

Method(s): ☐Bailer, Size: _____ ☑Bladder Pump ☐2" Sub. Pump ☐4" Sub. Pump ☐Centrifugal Pump ☐Peristaltic Pump ☐Inertial Lift Pump ☐Other: _____

Materials: Pump/Bailer ☐Polyethylene ☑Stainless ☐PVC ☐Teflon® ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☑Field-Cleaned ☐Disposable

Materials: Tubing/Rope ☑Polyethylene ☐Polypropylene ☐Teflon® ☐Nylon ☐Other: _____ ☐Dedicated ☐Prepared Off-Site ☐Field-Cleaned ☑Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐Yes ☑No

Sample ID: 150947-MW-12 Sample Date: 4.7.15 Sample Time: 1400 # of Containers: 7

Duplicate Sample Collected? ☐Yes ☑No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐Yes ☑No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at ~ 40 ft btoc.

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-12

3. PURGE DATA (continued from page 1)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1242	2.40	6.39	18.38	0.348	-129.1	0.18	2.45	39.76	
1252	2.75	6.39	18.24	0.347	-131.3	0.17	2.93	39.85	
1302	3.00	6.39	18.24	0.346	-132.8	0.16	3.10	39.81	
1312	3.50	6.41	18.24	0.346	-134.9	0.15	1.56	39.81	
1322	4.00	6.45	18.40	0.345	-135.3	0.14	1.35	39.84	
1332	4.5	6.44	18.93	0.344	-138.7	0.13	0.94	39.83	
1342	5.0	6.40	18.87	0.345	-137.6	0.14	1.00	39.85	
1352	5.5	6.45	19.33	0.345	-140.4	0.12	0.97	39.85	
1400	collect sample								

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-20

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: SFGLG

Project Location: Smyrna GA Weather: ~70° overcast

2. WELL DATA

Date Measured: 4-6-15 Time: Am Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: 45 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 33.09 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 11.91 feet Well Volume: 1.99 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-6-15 Time: 1040

Equipment Model(s)

1. YSI
2. Geosub
3. LaMotte
4.

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☑ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 5.96 gallons

Was well purged dry? ☐ Yes ☑ No Pumping Rate: gal/min Calibrated? ☐ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1045	2.5	5.00	15.87	.169	47.4	1.66	21.4	33.71	
1050	5.0	4.84	15.90	.166	36.9	1.86	10.27	33.71	
1055	7.0	4.91	15.90	.170	32.0	2.05	8.47	33.71	
1100	~~8~~ 9.0	4.96	15.92	.172	29.6	2.15	6.16	33.71	
1105	11.0	4.98	15.94	.173	26.5	1.83	3.21	33.71	

5 well vol

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☐ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☑ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 150406-MW-20 Sample Date: 4-6-15 Sample Time: 1105 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☐ Yes ☑ No ID: # of Containers:

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

intake at ~40 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-21

1. PROJECT INFORMATION

Project Number: _____ Task Number: _____ Area of Concern: _____

Client: Hillshire Brands Personnel: Brian Steele

Project Location: Smyrna GA Weather: Cloudy ~ 60°F

2. WELL DATA

Date Measured: 4.6.15 Time: AM Temporary Well: ☐Yes ☑No

Casing Diameter: 2 inches Type: ☑PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Screen Diameter: 2 inches Type: ☑PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other: _____

Total Depth of Well: 57.82 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Static Water: 38.62 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Depth to Product: — feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other: _____

Length of Water Column: 19.2 feet Well Volume: 3.2 gal Screened Interval (from GS): 48-58

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4.6.15 Time: 1200

Purge Method: ☐ Bailer, Size: _____ ☑Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 9.6 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: _____ gal/min

Equipment Model(s)
1. .6 e Pump
2. YSI-556
3. Lamotte 2020
4. Heron dipper

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1210	0.10	6.00	18.76	0.248	40.8	3.12	1024	38.85	
1225	0.75	5.83	18.57	0.237	29.4	0.85	2151	39.20	
1240	1.25	5.81	19.00	0.225	29.1	0.85	1134	39.20	
1255	1.75	5.78	19.35	0.219	29.7	0.63	1238	39.60	
1310	2.25	5.76	19.16	0.218	32.2	0.58	1437	40.7	

Purge data continued on next sheet? ☑

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: _____ ☑Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: _____ ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: _____ Field Filtered? ☐ Yes ☐ No

Sample ID: 15096-MW-21 Sample Date: 4.6.15 Sample Time: 1815 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Equipment Blank Collected? ☐ Yes ☑ No ID: _____ # of Containers: _____

Geochemical Analyses

Ferrous Iron: _____ mg/L

DO: _____ mg/L

Nitrate: _____ mg/L

Sulfate: _____ mg/L

Alkalinity: _____ mg/L

5. COMMENTS

Intake at top of water column, slowly lowered
Initial at 38.62 final at 51.5 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-21

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1325	3.00	5.79	19.02	0.217	34.3	0.51	2188	42.90	
1340	4.00	5.77	18.81	0.218	38.9	0.47	1123	45.20	
1355	5.00	5.84	18.87	0.216	43.2	0.48	107	47.20	
1410	6.00	5.88	18.94	0.220	47.8	0.59	31	48.9	
1425	6.5	5.92	18.92	0.217	58.0	1.05	38	50.2	
1440	7.25	5.89	18.84	0.220	59.2	1.14	98.2	51.3	
1455	8.00	5.93	19.30	0.223	54.9	1.46	73.0	51.50	
1510	8.50	5.91	19.31	0.228	57.2	1.52	55.2	51.65	
1525	9.00	5.88	18.98	0.227	60.8	1.72	35.3	51.80	
1540	10.00	5.91	19.06	0.226	64.9	1.96	47.0	52.0	
1555	10.50	5.89	19.03	0.227	72.2	2.35	60.3	52.6	
1610	11.00	5.89	19.12	0.229	77.9	2.24	62.2	53.2	
1625	11.5	5.92	19.71	0.233	82.5	2.24	43.5	52.82	
1640	12.0	5.90	19.32	0.230	88.5	2.30	40.8	52.10	
1655	12.5	5.91	19.39	0.235	93.3	2.04	34.8	51.60	
1710	13.0	5.87	19.05	0.237	96.1	1.66	24.7	51.20	
1725	13.5	5.86	18.92	0.231	99.2	1.82	32.6	51.05	
1740	14.0	5.87	18.87	0.233	100.5	1.69	23.1	50.90	
1755	14.5	5.84	18.81	0.222	103.4	1.70	74.7	50.93	
1810	15.0	5.82	18.91	0.221	106.7	1.84	106.1	50.89	
1815	collect sample, purged 5 vol of volume, turbidity not lowering.								

Purge data continued on next sheet? ☐

FORM GW-2 (Rev 11.March.10 - sej)

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: OW-72A

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: SVala

Project Location: Smyrna GA Weather: 270 Sunny

2. WELL DATA

Date Measured: 4-6-15 Time: AM Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: 135 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 75.79 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 59.21 feet Well Volume: 9.88 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-7-15 Time: 1315

Equipment Model(s)

1. YSI
2. LaMotte
3. GeoSub
4.

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☑ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 29.66 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1320	2.5	5.64	18.62	.172	86.4	0.67	29.3	86.14	
1330	6.0	5.75	18.86	.312	84.5	0.42	47.0	86.14	
1340	8.0	5.82	18.71	.369	66.3	0.31	37.8	89.73	
1350	10.0	5.70	18.99	.385	66.6	0.35	25.4	89.73	
1400	13.0	5.79	19.13	.400	119.7	0.29	18.0	89.73	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☐ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☐ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 145097-GW-72A Sample Date: 4-7-15 Sample Time: 1535 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☐ Yes ☑ No ID: # of Containers:

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

intake at ~ 129 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

FORM GW-2 (Rev 11.March.10 - sej)

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: OW-72A

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
1410	15.0	5.80	19.17	.417	35.4	0.20	12.4	89.73	
1420	17.5	5.81	19.22	.426	20.0	0.19	15.9	89.81	
1430	19.5	5.83	19.20	.428	13.1	0.19	8.63	89.81	
1440	21.5	5.84	19.16	.436	4.8	0.15	5.16	89.81	
1450	23.5	5.85	19.10	.436	2.4	0.16	4.94	89.81	
1500	25.0	5.82	19.09	.437	1.3	0.15	4.39	89.81	
1510	27.0	5.82	18.99	.439	-4.4	0.14	3.21	89.81	pump issues at 1520
1535	30.0	5.86	19.11	.439	-11.9	0.17	2.08	89.81	
				1535 sample					

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: OW-74A

1. PROJECT INFORMATION

Project Number: 145686 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Skals

Project Location: Smyrna GA Weather: ~60°

2. WELL DATA

Date Measured: 4-6-15 Time: 1 pm Temporary Well: ☐Yes ☐No

Casing Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Screen Diameter: 2 inches Type: ☑ PVC ☐ Stainless ☐ Galv. Steel ☐ Teflon® ☐ Other:

Total Depth of Well: 81 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 17.14 feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Product: feet From: ☐ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Length of Water Column: 63.86 feet Well Volume: 10.66 gal Screened Interval (from GS):

Note: 1-in well = 0.041 gal/ft 2-in well = 0.167 gal/ft 4-in well = 0.667 gal/ft 6-in well = 1.469 gal/ft

3. PURGE DATA

Date Purged: 4-7-15 Time: 0845

Purge Method: ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Rope/Tubing ☑ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Volume to Purge (minimum): 3 well volumes or 32 gallons

Was well purged dry? ☐ Yes ☐ No Pumping Rate: gal/min

Equipment Model(s)
1. GeoSub
2. YSI
3. LaMotte
4.

Calibrated? ☑ Yes ☐ No

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0850	3.0	4.91	16.96	.224	79.1	1.99	—	21.34	pump issue
0900	3.5	5.03	17.02	.113	95.9	3.06	62.2	21.34	
0910	5.0	5.09	17.92	.249	79.6	1.04	24.9	21.34	
0920	8.0	5.18	18.27	.254	89.0	0.55	21.3	21.34	no drawdown
0930	11.5	5.12	17.81	.256	104.1	0.38	11.16	21.34	

Purge data continued on next sheet? ☐

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☑ 2" Sub. Pump ☐ 4" Sub. Pump ☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other:

Materials: Pump/Bailer ☐ Polyethylene ☑ Stainless ☐ PVC ☐ Teflon® ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☑ Field-Cleaned ☐ Disposable

Materials: Tubing/Rope ☐ Polyethylene ☐ Polypropylene ☐ Teflon® ☐ Nylon ☐ Other: ☐ Dedicated ☐ Prepared Off-Site ☐ Field-Cleaned ☑ Disposable

Depth to Water at Time of Sampling: Field Filtered? ☐ Yes ☐ No

Sample ID: 15097-OW-74A Sample Date: 4-7-15 Sample Time: 1025 1030 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: # of Containers:

Equipment Blank Collected? ☐ Yes ☑ No ID: # of Containers:

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

intake at ~74 ft

Note: Include comments such as well condition, odor, presence of NAPL, or other items not on the field data sheet.

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: OW-74A

3. PURGE DATA (continued from page ____)

Time	Cum. Gallons Removed (gal)	pH ±0.1 su	Temp ±2°C	Spec. Cond. > of ±3% or ±10 µS/cm	ORP > of ±10% or ±20 mV	DO > of ±10% or ±0.2 mg/L	Turbidity ≤ 10 NTU	Water Level	Comments
0940	14.0	5.25	18.54	.257	102.2	0.33	8.66	21.34	
0950	17.0	5.07	17.48	.257	119.6	0.29	4.95	21.34	
1000	20.5	5.15	17.45	.257	119.5	0.27	3.94	21.34	
1010	24.0	5.20	17.49	.258	120.5	0.26	3.00	21.34	
1020	30.0	5.21	17.38	.258	123.0	0.24	2.90	21.34	
1030	33.0	5.21	17.42	.257	123.4	.24	1.68	21.34	
			~~1025~~	Sample					
			1030						

Purge data continued on next sheet? ☐

Signature

Appendix B: Current and Historical Purging Data *(on CD Rom)*

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-1	Mar/96	2	1.0		53.3 F	6.60		0.002
		4	2		55.8 F	6.59		0.002
		6	3		60.3 F	6.59		0.002
	Nov/97	0	0	195	21 C	7.50		0.260
		20	10	48	21 C	6.40		0.190
		30	15	19.8	21 C	5.60		0.200
		40	20	28.9	21 C	5.80		0.200
		45	22.5	19.5	21 C	5.80		0.200
	Dec/98	1	0.5		61.6 F	6.17		2.300
		2.5	1.25		65.8 F	6.23		0.402
		3.5	1.75		65.6 F	6.36		0.263
		6	3		66.1 F	6.34		0.253
		8	4		66.3 F	6.32		0.251
	Apr-01	2	1	19	22.9 C	5.98	1.62	0.216
		4	2	10	22.8 C	6.07	0.34	0.203
		6	3	5	22.7 C	6.06	0.29	0.200
	May-02	2	1	369	21.2 C	5.26	0.05	0.208
		4	2	999	21.2 C	4.79	0.07	0.204
		6	3	243	21.2 C	5.14	0.06	0.204
	Sep-03	1.4	0.7	122	21.6 C	6.37	1.27	0.187
		2.8	1.4	74	21.5 C	6.18	0.63	0.185
		4	2	56.3	21.8 C	6.00	0.74	0.176
		5	2.5	17.4	21.8 C	5.96	1.02	0.172
		5.5	2.8	8.5	21.8 C	5.98	1.02	0.171
MW-1R	May-04	1	1.08	534	25.72 C	6.38	0.84	0.241
		2	2.15	139	26.85 C	6.33	0.64	0.234
		2.5	2.69	73.4	27.57 C	6.31	0.54	0.225
		4	4.30	29.1	27.87 C	6.28	0.60	0.220
		5	5.38	8.4	27.29 C	6.28	0.94	0.219
	Jul-06	4	4.30	106	26.93 C	7.67	2.15	0.290
		5	5.38	92	26.54 C	7.23	2.56	0.350
		6	6.45	72	26.41 C	7.41	2.62	0.360
		7	7.53	44	26.51 C	7.34	2.60	0.390
		9	9.68	31	26.48 C	7.39	2.59	0.360
	Apr-07	0.1	0.09	364.3	21.17 C	6.46	0.87	0.395
		1	0.92	88.5	21.3 C	6.62	0.42	0.392
		1.2	1.10	18.4	21.26 C	6.65	0.45	0.391
		1.5	1.38	12.5	21.33 C	6.64	0.46	0.391
		3	2.75	8.5	21.69 C	6.69	0.43	0.390
		3.3	3.03	6.3	21.89 C	6.70	0.42	0.388
	Oct-07[a]	0.1	0.14	above range	18.16 C	6.74	3.30	0.389
		1	1.41	630	23.67 C	6.59	0.94	0.365
		1.25	1.76	560	22.98 C	6.61	0.69	0.369
		1.3	1.83	340	22.52 C	6.60	0.44	0.371
		1.37	1.93	300	22.28 C	6.61	0.33	0.376
		1.45	2.04	400	24.85 C	6.62	0.27	0.374
		2.2	3.10	1080	26.07 C	6.57	0.19	0.364
		2.57	3.62	373	23.45 C	6.51	1.89	0.358
		2.7	3.80	223	24.04 C	6.53	2.64	0.356
		2.8	3.94	871	24.97 C	6.53	2.78	0.355
		2.9	4.08	436	24.86 C	6.54	2.86	0.353
	Apr-08[a]	0.5	0.47	338	22.72 C	6.32	0.46	0.468
		1.25	1.17	145	22.91 C	6.39	0.57	0.464
		1.75	1.64	125	23.75 C	6.41	0.37	0.465
		2.25	2.10	74.3	24.27 C	6.47	0.31	0.469
		2.75	2.57	78.6	24.03 C	6.43	0.23	0.466
		3.25	3.04	77.9	24.79 C	6.46	0.31	0.465
		3.75	3.50	99.8	24.21 C	6.43	0.43	0.463
		4.25	3.97	265	24.07 C	6.45	0.62	0.463
		4.75	4.44	386	23.92 C	6.46	0.60	0.463
		5	4.67	230	23.9 C	6.39	0.46	0.463
		5.25	4.91	180	23.58 C	6.44	0.61	0.462
		5.5	5.14	183	23.73 C	6.45	0.16	0.463
	Oct-08[a]	0.1	0.15	276	21.78 C	6.18	1.11	0.435
		0.2	0.31	232	22 C	6.03	1.15	0.435
		0.25	0.38	207	22.23 C	5.97	1.14	0.435
		0.3	0.46	131	22.32 C	5.93	1.11	0.435
		0.4	0.62	78.1	22.35 C	5.90	1.06	0.434
		0.5	0.77	44.8	22.41 C	5.89	1.02	0.433
		0.6	0.92	43.6	22.24 C	5.87	0.97	0.433
		0.7	1.08	37.6	22.07 C	5.86	0.90	0.432
		0.77	1.18	42.1	21.8 C	5.84	0.86	0.431
		0.85	1.31	43.2	21.24 C	5.81	0.82	0.430
		0.95	1.46	45.5	20.99 C	5.80	0.80	0.431
		1.05	1.62	42.7	20.24 C	5.81	0.75	0.429
		1.15	1.77	41.9	20 C	5.79	0.70	0.429
		1.25	1.92	43	19.72 C	5.79	0.69	0.429
		1.35	2.08	40.9	19.62 C	5.77	0.65	0.427
		1.45	2.23	36.7	19.18 C	5.76	0.64	0.426
MW-1R		1.55	2.38	37.6	19.04 C	5.75	0.64	0.424

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.65	2.54	42.5	18.99 C	5.76	0.65	0.424
		1.75	2.69	31.5	18.97 C	5.75	0.64	0.423
		1.85	2.85	33.4	18.98 C	5.75	0.63	0.423
		1.9	2.92	32.7	18.97 C	5.75	0.63	0.422
		1.95	3.00	32.5	18.97 C	5.76	0.62	0.422
	Apr-09[a]	0.1	0.10	506	21.91 C	6.49	1.92	0.318
		0.3	0.31	733	22.59 C	6.49	0.57	0.324
		0.5	0.52	181	23.38 C	6.45	0.44	0.320
		0.7	0.72	85.3	23.74 C	6.46	0.47	0.320
		1	1.03	63.5	23.47 C	6.43	0.59	0.321
		1.4	1.44	39.2	24.00 C	6.42	0.67	0.322
		1.7	1.75	35.3	23.81 C	6.41	0.73	0.323
		1.9	1.96	24.6	23.81 C	6.40	0.73	0.324
		2.1	2.16	321	24.33 C	6.41	0.78	0.325
		2.3	2.37	223	24.05 C	6.40	0.89	0.324
		2.7	2.78	298	25.03 C	6.45	1.45	0.325
		3.2	3.30	210	24.13 C	6.42	0.45	0.325
		3.75	3.87	145	23.96 C	6.43	0.30	0.327
		4.5	4.64	198	24.91 C	6.45	0.41	0.332
		5	5.15	225	24.23 C	6.40	1.11	0.325
		5.05	5.21	390	18.85 C	6.48	3.08	0.345
		5.3	5.46	305	19.56 C	6.42	4.81	0.322
		5.4	5.57	213	19.14 C	6.40	4.31	0.320
		5.5	5.67	163	18.32 C	6.38	4.17	0.318
		5.55	5.72		17.70 C	6.37	7.13	0.318
		5.6	5.77	154	17.38 C	6.36	6.78	0.318
		5.65	5.82		17.35 C	6.35	3.33	0.317
		5.65	5.82	115	17.50 C	6.35	3.35	0.318
		5.7	5.88	86.4	17.60 C	6.35	3.29	0.317
		5.75	5.93	69.2	17.77 C	6.35	3.08	0.317
		5.8	5.98	58.7	17.85 C	6.35	2.89	0.317
		5.8	5.98	55.6	17.99 C	6.35	2.86	0.317
		5.8	5.98	59.1	18.02 C	6.35	2.87	0.317
	Oct-09	0.25	0.22	183.5	21.37 C	6.74	0.66	0.240
		1	0.86	52.5	21.72 C	6.73	0.57	0.222
		1.35	1.16	30.4	21.90 C	6.66	0.50	0.222
		1.6	1.38	21.5	21.94 C	6.65	0.41	0.220
		1.9	1.64	12.8	22.01 C	6.65	0.36	0.221
		2.05	1.77	10.06	22.07 C	6.64	0.33	0.220
		2.2	1.90	9.96	22.11 C	6.65	0.33	0.220
	Apr-10	0.5	0.39	179	21.56	5.89	0.52	0.194
		1	0.78	100.8	21.93	5.96	0.56	0.193
		1.5	1.17	35.3	22.13	6.06	0.50	0.194
		2	1.56	24.5	22.37	6.08	0.39	0.193
		2.5	1.95	8.78	22.64	6.08	0.32	0.185
		3	2.34	7.94	22.45	6.05	0.29	0.176
		3.5	2.73	6.66	22.50	6.00	0.27	0.175
		4	3.13	17.1	22.54	6.01	0.27	0.172
		4.5	3.52	40.6	22.59	5.96	0.28	0.176
		4.75	3.71	60.2	22.95	6.03	0.24	0.177
		5	3.91	55.9	23.05	6.04	0.63	0.184
		5.5	4.30	28.1	22.64	6.10	0.37	0.193
		5.75	4.49	23.8	22.75	6.11	0.35	0.194
		5.9	4.61	23	22.77	6.13	0.37	0.194
	Oct-10	0.5	0.5	5.85	22.73	6.28	0.39	0.298
		4.25	3.9	384	39.61	6.23	0.59	0.258
		5.25	4.9	31.3	24.85	6.29	2.96	0.252
		5.5	5.1	24.1	25.04	6.27	3.28	0.252
		5.75	5.3	29.8	24.34	6.25	3.37	0.252
	Apr-11[a]	0.75	0.6	33.1	22.49	6.31	3.08	0.221
		1.5	1.3	40.2	23.56	6.31	1.72	0.221
		3.5	2.9	188	22.96	6.34	1.51	0.213
		4.5	3.8	61.8	24.21	6.33	2.34	0.205
		5	4.2	113	24.94	6.33	2.08	0.212
		5.25	4.4	33.7	23.78	6.38	2.05	0.217
		6	5.0	22.1	23.37	6.39	1.00	0.227
		6.25	5.2	20.9	23.58	6.37	1.02	0.227
		6.5	5.4	28.1	24.04	6.36	1.11	0.225
		6.75	5.6	29.1	24.1	6.39	1.45	0.225
	Oct-11	0.25	0.3	108	22.03	5.63	1.58	0.266
		0.75	0.9	69.5	21.88	5.93	0.61	0.262
		1.25	1.5	109	22.00	5.96	0.56	0.261
		1.5	1.8	301	22.16	6.15	0.82	0.262
		1.75	2.1	594	22.98	6.25	0.7	0.266
	Apr-12	0.5	0.6	124	21.86	6.35	1.17	0.254
		1	1.1	120	22.06	6.33	1.30	0.254
		1.25	1.4	117	22.25	6.34	1.32	0.254
		2	2.2	18.6	22.53	6.32	1.03	0.253
MW-1R		2.5	2.8	11.1	22.59	6.32	0.77	0.252
		3	3.3	17.8	22.55	6.31	0.61	0.252

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		3.25	3.6	49.4	22.55	6.30	0.55	0.252
		3.5	3.9	33.3	22.23	6.26	0.54	0.251
	Oct-12	0.25	0.4	364	24.35	6.23	0.81	0.278
		0.5	0.7	64.2	24.45	6.27	0.51	0.275
		0.75	1.1	19.1	25.26	6.48	0.39	0.274
		1	1.4	9.73	25.06	6.4	0.42	0.274
		1.25	1.8	9.6	25.87	6.43	0.35	0.273
		1.5	2.1	11.4	26.23	6.4	0.38	0.273
		1.75	2.5	31.2	26.1	6.4	0.36	0.273
		2.25	3.2	29.7	26.31	6.39	0.43	0.273
		2.5	3.5	40.25	26.44	6.42	0.35	0.273
		2.75	3.9	36.4	25.9	6.42	0.4	0.274
	Apr-13	0.5	0.5	178	22.31	6.19	0.42	0.181
		1.50	1.6	41.8	22.65	6.2	0.210	0.176
		2.00	2.2	29.4	22.72	6.19	0.190	0.177
		2.75	3.0	53.1	23.14	6.19	0.380	0.176
		3.00	3.2	205	23.65	6.19	0.740	0.175
		3.75	4.0	20.6	24.73	6.17	0.200	0.176
		4.25	4.6	14.7	23.86	6.16	0.140	0.179
		5.00	5.4	63	24.03	6.14	0.130	0.178
MW-2	Mar-96	3	1.2		48.3 F	5.66		0.265
		6	2.3		54.7 F	6.01		0.305
		8	3.1		57 F	6.05		0.310
	Nov-97	0	0.0	1080	17 C	6.70		0.270
		20	7.7	157	16 C	6.00		0.340
		30	11.5	21	16 C	6.10		0.370
		35	13.5	9.71	16 C	6.20		0.410
	Dec-98	1	0.4		59.8 F	5.77		5.490
		3	1.2		63.3 F	5.74		0.404
		5	1.9		64.1 F	5.75		0.324
		7	2.7		64.3 F	5.84		0.302
	Apr-01	3	1.2	4	19.9 C	5.28	0.45	0.200
		6	2.3	4	19.6 C	5.23	1.27	0.187
		9	3.5	3	19.6 C	5.25	1.43	0.187
	May-02	1	0.4	98	19.1 C	5.35	0.24	0.402
		2	0.8	67	19.2 C	5.73	0.52	0.512
		3	1.2	23	19.2 C	5.58	0.51	0.541
	Sep-03[b]	2.6	1.0	386	19.7 C	5.36	7.29	0.188
		5.2	2.0	113	20.0 C	5.70	3.91	0.222
		7.8	3.0	52.8	20.0 C	5.94	2.69	0.235
		11	4.2	29.8	20.5 C	6.17	1.38	0.263
		13	5.0	43.2	20.0 C	6.20	0.73	0.264
		15	5.8	35.9	20.3 C	6.23	0.83	0.278
		17	6.5	47.2	19.5 C	6.22	0.95	0.262
		18	6.9	56.5	19.4 C	6.27	1.00	0.285
	May-04	1	0.6	37.7	22.11 C	5.51	0.85	0.180
		1.5	0.9	22.2	24.79 C	5.58	1.16	0.194
		2	1.2	18.6	25.78 C	5.61	0.98	0.204
		2.5	1.5	11.4	27.32 C	5.64	1.17	0.216
		3	1.8	10.9	27.38 C	5.66	1.05	0.222
		3.5	2.1	8.2	26.25 C	5.76	1.02	0.232
		4	2.5	18.7	22.39 C	5.94	2.05	0.323
		4.5	2.8	15.6	23.4 C	5.92	1.85	0.316
		5	3.1	9.5	26.51 C	5.92	2.60	0.318
		5.5	3.4	8.9	27.22 C	5.97	1.96	0.318
		6	3.7	8.5	26.94 C	5.96	1.95	0.318
	Jul-06	2	1.2	164	20.67 C	7.17	0.35	0.193
		4	2.5	75.3	21.85 C	7.17	0.24	0.218
		6	3.7	37.2	21.4 C	7.19	0.42	0.266
		8	4.9	24.8	22.17 C	7.15	0.49	0.283
		10	6.1	9.9	22.38 C	7.18	0.75	0.278
	Apr-07	0.5	0.5	417	19.25 C	5.91	1.31	0.187
		1	1.0	159	19.44 C	6.08	0.45	0.212
		1.5	1.5	77.4	19.36 C	6.13	0.39	0.222
		2	2.1	40.2	19.54 C	6.26	0.52	0.270
		2.5	2.6	31.7	19.63 C	6.28	0.40	0.275
		4	4.1	17.8	19.54 C	6.31	0.71	0.303
		7.5	7.7	86.4	21.1 C	6.37	4.40	0.322
		10	10.3	64.5	20.71 C	6.40	4.67	0.334
		11	11.3	35.3	21.09 C	6.33	3.65	0.318
		11.25	11.6	21.3	21.07 C	6.33	3.62	0.318
		12	12.4	12.5	20.97 C	6.34	3.81	0.324
		12.25	12.6	8.3	20.83 C	6.34	3.73	0.325
	Oct-07	0.25	0.3	347.0	17.51 C	5.91	1.68	0.235
		0.50	0.6	231.0	18.01 C	5.72	1.36	0.241
		0.75	0.9	336.0	17.83 C	5.78	2.04	0.257
		1.00	1.1	153.0	17.92 C	5.81	4.02	0.269
MW-2	Oct-07	1.50	1.7	401.0	17.72 C	5.91	1.56	0.287
		2.00	2.3	326.0	17.96 C	5.93	1.31	0.323
		2.50	2.9	305.0	18.29 C	5.95	2.26	0.343

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		2.75	3.2	13.9	18.38 C	5.84	3.31	0.320
		3.50	4.0	21.3	18.35 C	5.83	2.45	0.319
		3.75	4.3	24.1	18.18 C	5.87	1.95	0.343
		4.00	4.6	20.6	18.25 C	5.89	1.95	0.349
		4.50	5.2	16.8	18.13 C	5.89	1.75	0.354
	Apr-08[a]	0.00	0.0	56.2	17.21 C	5.56	1.47	0.239
		0.45	0.4	62.5	17.84 C	5.65	1.31	0.210
		1.00	0.9	83.3	17.83 C	5.66	0.75	0.207
		1.25	1.2	83.3	17.76 C	5.67	0.67	0.208
		1.70	1.6	68.6	17.74 C	5.70	0.50	0.210
		2.00	1.9	58.2	17.76 C	5.72	0.46	0.214
		2.30	2.1	38.5	17.93 C	5.84	0.35	0.232
		2.80	2.6	24.7	18.06 C	5.92	0.31	0.246
		3.30	3.1	16.8	18.24 C	5.97	0.29	0.252
		3.35	3.1	14.4	18.09 C	6.00	0.32	0.256
		3.40	3.1	11.6	18.13 C	5.99	0.33	0.259
		3.50	3.2	9.31	18.04 C	6.02	0.28	0.262
	Oct-08	0.20	1.0	198.0	14.52 C	6.04	4.22	0.255
		0.40	2.0	81.6	15.22 C	6.15	3.49	0.249
		0.60	3.0	201.0	16.6 C	6.26	3.94	0.258
		0.80	4.0	198.0	16.1 C	6.22	3.62	0.274
		1.00	5.0	211.0	16.22 C	6.25	2.58	0.290
	Apr-09[a]	0.00	0.0		16.53 C	5.85	3.30	0.194
		0.15	0.1	46.2	16.45 C	5.80	3.03	0.192
		0.20	0.2	32.1	16.35 C	5.80	2.87	0.191
		0.25	0.2	24.7	16.19 C	5.75	2.81	0.190
		0.30	0.2	20.2	16.24 C	5.74	2.73	0.189
		0.35	0.3	16.3	16.34 C	5.73	2.73	0.189
		0.40	0.3	14.9	16.39 C	5.74	2.50	0.190
		0.45	0.3	12.3	16.46 C	5.74	2.42	0.192
		0.50	0.4	10.3	16.82 C	5.76	2.34	0.194
		0.50	0.4	10.2	17.04 C	5.76	2.33	0.195
		0.55	0.4	9.43	17.31 C	5.78	2.38	0.195
	Oct-09[a]	0.25	0.1	346.0	18.00 C	5.53	7.73	0.181
		0.60	0.3	262.0	18.04 C	5.40	1.80	0.184
		1.00	0.6	158.3	17.72 C	5.57	1.17	0.193
		1.50	0.8	194.0	17.97 C	5.61	1.00	0.195
		2.00	1.1	191.0	17.77 C	5.66	0.86	0.207
		2.35	1.3	211.0	18.49 C	5.69	0.78	0.217
		3.00	1.7	199.0	18.09 C	5.72	0.79	0.212
		3.35	1.9	197.0	18.31 C	5.86	0.69	0.221
		3.75	2.1	205.0	18.14 C	5.78	0.68	0.226
		4.25	2.4	192.0	18.52 C	5.86	0.71	0.235
		4.39	2.5	165.0	17.55 C	5.87	0.66	0.238
		4.55	2.6	109.0	18.24 C	5.90	0.50	0.247
		5.00	2.8	149.0	17.93 C	5.91	0.47	0.252
		5.25	3.0	63.2	17.39 C	5.94	0.57	0.257
		5.65	3.2	43.7	18.48 C	6.01	0.52	0.257
		6.15	3.5	35.7	17.61 C	5.84	0.62	0.257
		6.25	3.5	32.4	17.07 C	5.95	0.75	0.262
		6.35	3.6	29.5	17.43 C	6.02	0.57	0.264
		6.50	3.7	23.5	17.28 C	5.97	0.69	0.267
		7.10	4.0	48.5	18.11 C	6.19	0.88	0.265
		7.35	4.2	17.9	17.81 C	5.95	1.05	0.263
		7.50	4.2	14.6	17.38 C	5.94	0.76	0.267
		8.00	4.5	38.5	18.60 C	6.17	0.63	0.271
		8.30	4.7	115.0	18.50 C	6.07	0.74	0.264
		8.75	4.9	102.5	18.75 C	6.09	1.02	0.259
		8.95	5.1	110.1	17.99 C	6.01	1.08	0.261
		9.25	5.2	91.5	19.06 C	6.14	0.59	0.269
		9.55	5.4	109.7	17.91 C	5.80	0.77	0.266
		10.00	5.6	55.9	19.02 C	6.17	0.63	0.273
		10.10	5.7	142.5	18.89 C	6.14	0.95	0.261
		10.15	5.7	152.3	18.18 C	6.03	0.95	0.258
		10.50	5.9	285.0	19.15 C	6.02	0.69	0.265
	Apr-10[a]	0.50	0.2	above range	17.76	5.42	2.30	0.170
		1.50	0.6	above range	17.91	5.49	1.92	0.170
		2.00	0.8	above range	18.06	5.57	1.69	0.173
		3.00	1.1	764.0	18.04	5.58	1.61	0.174
		3.75	1.4	315.0	18.57	5.59	1.31	0.175
		4.50	1.7	351.0	18.52	5.61	1.60	0.177
		5.50	2.1	346.0	18.60	5.62	1.81	0.180
		6.50	2.5	216.0	18.69	5.66	1.86	0.184
		7.50	2.8	151.0	18.84	5.67	2.04	0.188
		8.50	3.2	101.7	18.87	5.69	2.32	0.194
MW-2	Apr-10[a]	9.50	3.6	102.4	18.67	5.72	3.19	0.196
		11.00	4.2	137.0	18.88	5.74	4.24	0.201
		12.00	4.5	109.3	18.91	5.75	16.07	0.203
		13.00	4.9	150.0	18.92	5.71	18.42	0.194

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		14.00	5.3	140.0	18.94	5.85	5.77	0.218
		15.00	5.7	262.0	18.91	5.80	13.94	0.213
		16.00	6.0	98.6	19.26	5.85	14.03	0.218
		17.00	6.4	37.5	19.27	5.85	14.55	0.224
		17.50	6.6	23.0	19.18	5.85	14.91	0.223
		18.00	6.8	18.2	19.10	5.85	13.60	0.222
		18.50	7.0	20.1	19.07	5.86	14.44	0.221
	Oct-10	0	0.0	447	17.77	5.15	3.11	0.177
		1.25	1.5	220	17.41	5.44	1.72	0.168
		2.2	2.6	53.8	17.86	5.63	1.01	0.184
		3.25	3.8	28.5	18.03	5.77	0.59	0.200
		4	4.7	21.5	18.22	5.83	0.49	0.206
		4.15	4.9	21.8	18.28	5.85	0.46	0.208
		4.3	5.1	21.6	18.32	5.86	0.46	0.208
	Apr-11[a]	0.5	0.4	344	19.12	5.65	1.41	0.180
		2.5	2.0	140	19.26	5.71	1.89	0.177
		3.5	2.8	124	19.31	5.78	1.64	0.184
		4.2	3.4	165	19.95	5.82	1.26	0.193
		5	4.0	64.8	19.7	5.84	1.34	0.199
		5.75	4.6	48.4	20.01	5.79	1.77	0.205
		6.25	5.0	38.8	20.22	5.72	1.94	0.209
		7.5	6.0	39.6	20.06	5.75	2.95	0.216
		8.5	6.8	38.8	20.39	5.76	2.34	0.221
		9.25	7.4	17.03	19.87	5.84	3.41	0.227
		10	8.0	17	20.28	5.85	3.90	0.231
		11	8.8	19.1	20.32	5.86	3.18	0.233
		11.5	9.2	15.4	19.84	5.88	4.07	0.235
		12	9.6	17.5	20.19	5.93	4.16	0.236
		12.5	10.0	17.9	20.32	5.93	3.54	0.237
	Oct-11	0.25	0.9	319	18.62	5.92	1.69	0.183
		0.5	1.9	233	18.78	6.12	0.94	0.199
		0.6	2.2	221	19.00	6.14	0.77	0.212
		0.7	2.6	208	18.98	6.22	0.74	0.219
		0.8	3.0	188	19.31	6.31	0.72	0.228
		0.9	3.3	146	20.05	6.37	0.59	0.234
		1	3.7	109	20.01	6.37	0.6	0.237
	Apr-12	0.75	0.7	59.8	20.59	5.05	1.44	0.173
		2	2.0	53.7	19.79	5.59	0.49	0.223
		3	2.9	74.8	19.37	5.61	0.41	0.246
		4	3.9	210	19.53	5.99	0.36	0.278
	Oct-12	0.75	3.2	185	20.56	6.25	3.88	0.391
		1.75	7.4	230	20.35	6.20	4.83	0.383
		2.35	10.0	509	22.72	6.59	2.96	0.383
		2.55	10.9	600	24.22	6.63	3.56	0.383
		2.7	11.5	815	25.3	6.65	3.29	0.387
		2.85	12.1	ABD	26.03	6.65	3.14	0.387
		2.95	12.6	ABD	26.48	6.65	3.34	0.389
		3.1	13.2	713	26.75	6.66	3.88	0.393
		3.25	13.8	ABD	26.9	6.67	3.88	0.396
		3.3	14.0	–	26.9	6.66	3.95	0.396
		3.35	14.3	ABD	26.7	6.65	4.02	0.397
	Apr-13	0.25	1.1	132	18.1	5.16	3.08	0.162
		0.75	3.2	116	18.61	5.52	2.36	0.161
		1	4.3	58.4	18.63	5.54	2.11	0.158
		1.25	5.3	43.3	18.66	5.54	1.32	0.156
		1.75	7.4	39.2	18.65	5.54	1.2	0.155
		2	8.5	24.8	18.61	5.58	0.98	0.158
		2.25	9.6	29.1	18.87	5.59	0.82	0.166
		2.5	10.6	24.5	19.12	5.68	0.67	0.176
		2.75	11.7	32	18.76	5.89	0.55	0.187
		3.25	13.8	31.3	19.05	5.9	0.53	0.206
		4	17.0	38	18.75	6.05	0.69	0.227
		5	21.3	-	19.02	5.8	1.11	0.212
	Oct-13	0	0.0	354	17.73	5.52	2.23	0.138
		0.5	2.1	116	17.76	5.60	1.27	0.133
		1	4.3	64.4	17.76	5.65	1.10	0.138
		1.5	6.4	30.5	17.78	5.69	1.02	0.142
		2	8.5	15.6	17.81	5.73	0.94	0.145
		2.5	10.6	27.1	17.80	5.77	0.87	0.148
		3	12.8	31.7	17.84	5.78	0.85	0.151
		3.5	14.9	28.7	17.83	5.81	0.80	0.154
		4	17.0	23.1	17.81	5.83	0.75	0.156
		4.5	19.1	22.1	17.00	5.85	0.75	0.158
		5	21.3	14.9	17.80	5.87	0.67	0.159
		5.5	23.4	13.9	17.77	5.88	0.65	0.16
		6	25.5	9.48	17.79	5.89	0.61	0.161
MW-2	Apr-14	0.5	2.1	145	17.79	5.60	1.05	0.148
		1.1	4.7	169.3	17.82	5.68	0.96	0.148
		1.75	7.4	154.3	17.97	5.74	0.91	0.151
		2.5	10.6	102.8	18.06	5.78	0.85	0.156

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-2		2.75	11.7	87.4	18.07	5.79	0.78	0.158
		3.5	14.9	85.4	18.00	5.82	0.71	0.162
		4	17.0	119	17.99	5.86	0.67	0.165
		4.5	19.1	119.7	17.9	5.84	0.63	0.167
		5	21.3	125	17.70	5.86	0.61	0.170
		5.5	23.4	151	17.87	5.90	0.57	0.171
		6	25.5	147	17.85	5.89	0.55	0.173
	Oct-14	0.6	0.5	177	19.25	5.60	1.49	0.145
		1.8	1.5	212	19.95	5.62	1.84	0.147
		2.4	2.0	151	19.72	5.59	1.77	0.148
		2.9	2.4	85.8	19.9	5.69	1.64	0.15
		3.7	3.1	43.8	20.21	5.74	1.65	0.15
		4	3.3	32.6	19.9	5.72	1.63	0.15
		4.3	3.6	26	20.23	5.74	1.66	0.15
		4.6	3.8	8.38	20.19	5.74	1.67	0.15
	Apr-15	0.75	0.6	27.5	17.62	5.32	1.06	0.138
		1	0.8	22.7	17.39	5.35	0.88	0.139
		1.1	0.9	15.5	17.43	5.41	0.8	0.139
		1.4	1.2	13.6	17.49	5.44	0.76	0.14
		1.6	1.3	11.6	17.74	5.46	0.7	0.141
		1.8	1.5	11.7	17.89	5.46	0.67	0.142
		2.2	1.8	12	18	5.48	0.63	0.142
		2.5	2.1	11.5	18.1	5.5	0.6	0.143
		3	2.5	12	18.17	5.51	0.59	0.144
		3.25	2.7	12.8	18.24	5.53	0.57	0.144
		3.5	2.9	14	18.38	5.54	0.54	0.146
		3.75	3.1	13.3	18.44	5.53	0.52	0.146
		4	3.3	12.6	18.69	5.56	0.5	0.147
		4.4	3.7	12.45	18.89	5.57	0.47	0.148
MW-3	Mar-96	1.5	1	18.87	50.4 F	6.75		0.131
		3	2	18.91	56.8 F	6.88		0.153
		5	3.3	18.88	57.5 F	6.92		0.150
	Nov-97	1	0.7	610	17 C	5.80		0.130
		3	2	97.2	18 C	6.00		0.130
		7	4.7	47.2	18 C	6.00		0.130
		14	9.3	22.8	18 C	6.10		0.130
		20	13.3	28.2	18 C	6.10		0.130
	Dec-98	1	0.7		62.2 F	6.08		3.640
		2	1.3		64.9 F	6.38		0.325
		3.5	2.3		65.3 F	6.45		0.207
		5	3.3		65 F	6.44		0.301
		6	4.0		64.9 F	6.42		0.277
	Apr-01	2	1.3	58	20.6 C	5.64	6.40	0.115
		4	2.7	71	20.6 C	5.61	6.46	0.114
		6	4.0	27	20.5 C	5.59	6.52	0.117
	May-03	not sampled due to well damage						
	Sep-03	not sampled due to well damage						
	May-04	replaced with MW-3R						
MW-3R	May-04	1.5	1.01	745	23.54 C	5.94	7.09	0.113
		2	1.34	208	24.98 C	5.74	6.15	0.111
		3	2.01	72.9	25.13 C	5.77	6.13	0.110
		3.5	2.35	21.1	25.81 C	5.77	5.86	0.110
		4	2.68	14.5	25.34 C	5.75	5.98	0.110
		5	3.36	9	25.32 C	5.70	6.12	0.110
		5.5	3.69	6.5	25 C	5.76	5.94	0.109
		6	4.03	6.1	25.25 C	5.69	5.90	0.109
		6.5	4.36	5.4	25.47 C	5.71	5.89	0.109
	Jul-06	1.7	1.14	> 999	22.29 C	5.90	4.55	0.080
		3.4	2.28	> 999	24.25 C	6.00	3.46	0.078
		4	2.68	> 999	24.34 C	5.90	6.43	0.080
		6	4.03	544	24.91 C	6.03	3.94	0.079
		8	5.37	347	24.6 C	6.06	3.78	0.078
		9	6.04	169	23.24 C	6.17	2.65	0.078
		11.5	7.72	54.6	22.25 C	6.27	1.22	0.077
		13	8.72	19.7	22.72 C	6.35	1.29	0.077
		14	9.40	4.5	22.97 C	6.41	0.79	0.077
	Apr-07	1.2	0.91	122	20.87 C	6.07	3.28	0.142
		1.8	1.36	22.1	20.74 C	6.14	3.71	0.143
		4	3.03	4.3	20.73 C	6.20	3.87	0.144
	Oct-07[a]	0.2	0.22	766	21.59 C	5.99	4.99	0.119
		1.6	1.73	324	21.76 C	6.03	4.36	0.122
		2.2	2.38	395	22.05 C	6.04	4.38	0.122
		2.8	3.03	270	22.39 C	6.06	4.09	0.123
		3.5	3.78	144	22.56 C	6.03	4.30	0.123
		4.2	4.54	74.2	22.76 C	6.06	4.33	0.123
		4.9	5.30	61.9	22.85 C	6.07	4.38	0.123
		5.3	5.73	46.1	22.97 C	6.04	4.30	0.124
		6.2	6.70	43.8	22.71 C	6.02	4.60	0.123
		6.5	7.03	43.2	22.17 C	6.00	4.62	0.123
		6.8	7.35	46.4	22.18 C	5.99	4.52	0.123

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
	Apr-08[a]	0	0.00	124	24.01 C	5.34	6.30	0.133
		0.125	0.18	183	22.65 C	4.65	5.47	0.119
		0.25	0.35	79.3	22.12 C	4.25	4.98	0.117
		0.5	0.70	60.1	21.60 C	4.31	5.20	0.118
		0.75	1.06	29.7	21.40 C	4.38	5.23	0.119
		1	1.41	18.4	21.17 C	4.86	4.92	0.121
		1.25	1.76	15.1	21.05 C	5.07	4.93	0.122
		1.5	2.11	22.8	20.63 C	5.15	5.16	0.121
		2	2.82	14.2	20.56 C	5.31	5.08	0.121
		2.125	2.99	13.4	20.47 C	5.38	5.22	0.122
		2.25	3.17	9.89	20.74 C	5.14	5.68	0.122
	Oct-08[a]	0.05	0.09	206	19.15 C	5.05	8.54	0.127
		0.15	0.26	163	19.31 C	5.77	6.03	0.125
		0.25	0.43	115	19.4 C	5.60	6.02	0.125
		0.4	0.69	59.8	19.44 C	5.53	5.96	0.124
		0.6	1.03	20.7	19.86 C	5.48	6.00	0.125
		0.8	1.38	18.5	20.36 C	5.53	5.98	0.127
		1	1.72	16.5	20.03 C	5.58	5.94	0.127
		1.1	1.90	20.8	20.12 C	5.54	6.00	0.128
		1.15	1.98	18.2	19.83 C	5.51	6.07	0.128
		1.2	2.07	17.4	20.23 C	5.45	6.00	0.128
		1.3	2.24	11.3	20.14 C	5.41	6.02	0.128
		1.5	2.59	11.1	20.02 C	5.45	5.96	0.128
		1.6	2.76	12.3	20.08 C	5.40	5.86	0.128
		1.7	2.93	9.42	20.1 C	5.40	5.91	0.128
MW-3R	Apr-09[a]	0	0.00	870	18.2 C	6.06	6.40	0.120
MW-3R		0.15	0.26	408	18.21 C	5.80	6.84	0.083
		0.25	0.43	169	18.14 C	5.81	6.88	0.087
		0.4	0.69	168	18.38 C	5.86	6.77	0.096
		0.6	1.03	117	18.58 C	5.93	6.55	0.106
		0.8	1.38	90.7	18.71 C	5.95	6.51	0.109
		1	1.72	71.9	18.85 C	5.97	6.66	0.114
		1.2	2.07	88.7	18.97 C	6.00	6.55	0.114
		1.4	2.41	71	19.1 C	6.00	6.65	0.116
		1.45	2.50	75.2	18.88 C	5.88	7.63	0.116
		1.53	2.64	67.4	18.85 C	5.89	7.45	0.117
		1.57	2.71	52.9	18.83 C	5.92	7.30	0.118
		1.65	2.84	45.4	18.79 C	5.93	8.02	0.117
		1.75	3.02	37.6	18.84 C	5.98	8.02	0.117
		1.85	3.19	35.8	18.89 C	5.98	7.77	0.117
		1.95	3.36	28.9	18.89 C	6.00	7.67	0.119
		1.97	3.40	29.2	18.89 C	6.00	7.59	0.118
		2	3.45	27.5	18.9 C	5.99	7.50	0.118
	Oct-09[a]	0.3	0.34	70.4	20.75 C	5.70	6.28	0.126
		0.8	0.91	60.1	21.42 C	5.84	6.00	0.130
		1.05	1.19	48.6	21.75 C	5.87	6.01	0.131
		1.25	1.42	42.1	22.00 C	5.86	6.00	0.131
		1.4	1.59	41.9	21.64 C	5.84	6.00	0.131
		1.6	1.82	41.9	21.47 C	5.82	5.92	0.131
		1.9	2.16	36.7	21.36 C	5.81	5.93	0.131
		2.1	2.39	37.4	21.34 C	5.80	5.89	0.131
		2.25	2.56	29.9	21.08 C	5.77	5.85	0.132
		2.45	2.78	28.7	20.95 C	5.77	5.82	0.132
		2.75	3.13	29.6	20.88 C	5.79	5.81	0.132
		3.1	3.52	26.6	20.67 C	5.77	5.82	0.132
		3.2	3.64	26.5	20.38 C	5.74	5.91	0.132
		3.4	3.86	24.2	20.23 C	5.72	5.86	0.132
		3.6	4.09	24.8	20.22 C	5.73	5.84	0.132
	Apr-10	0.2	0.10	676	20.39	5.23	3.10	0.132
		0.3	0.16	364	20.06	5.32	3.04	0.128
		0.6	0.31	256	19.99	5.35	3.07	0.126
		0.9	0.47	168	19.96	5.37	3.05	0.125
		1.2	0.62	114	19.96	5.45	3.04	0.124
		1.5	0.78	71.4	19.97	5.43	3.03	0.123
		1.8	0.93	63.1	20.04	5.42	3.03	0.122
		2.3	1.19	55.1	20.04	5.43	3.03	0.121
		2.8	1.45	52	20.01	5.41	3.05	0.121
		3.3	1.71	40.8	20.09	5.45	3.06	0.122
		3.8	1.97	38.4	20.17	5.46	3.06	0.121
		4.3	2.23	34.6	20.22	5.48	3.12	0.121
		4.6	2.38	28	20.22	5.49	3.06	0.121
		5	2.59	25.3	20.23	5.49	3.04	0.120
		5.4	2.80	22.1	20.26	5.49	3.04	0.122
		5.8	3.01	21.9	20.29	5.49	3.02	0.121
		6.2	3.21	19.3	20.39	5.49	3.00	0.122
	Oct-10	0.25	0.1	399	21.92	5.83	6.60	0.137
		2.75	1.5	34.6	20.96	5.75	6.20	0.127
		5	2.8	10.8	22.68	5.97	5.79	0.128
		5.25	2.9	10.2	23.68	6.03	5.60	0.129
		5.5	3.1	9.73	24.01	6.06	5.58	0.130

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
	Apr-11	0.25	0.2	138	20.18	5.78	4.45	0.120
		0.35	0.3	129	20.12	5.76	4.15	0.120
		0.45	0.4	118	20.11	5.82	4.05	0.120
		0.55	0.5	72	20.26	5.81	3.98	0.120
		0.65	0.5	61.4	20.5	5.88	3.92	0.121
		0.75	0.6	37	20.64	5.91	3.89	0.122
		0.95	0.8	34.8	20.69	5.93	3.87	0.122
		1.1	0.9	33.4	20.78	5.95	3.84	0.123
		1.25	1.0	27.8	20.7	5.97	3.83	0.124
		1.4	1.2	20.9	20.52	5.95	3.82	0.124
		1.55	1.3	18.7	20.43	5.97	3.80	0.125
		1.7	1.4	15.9	20.53	5.97	3.77	0.125
		1.85	1.5	13.2	20.75	5.98	3.77	0.126
		2	1.7	15.8	20.97	6.00	3.74	0.126
		2.15	1.8	11.8	21.06	5.99	3.76	0.126
		2.3	1.9	9.19	20.79	6.00	3.77	0.126
	Oct-11	0.1	0.1	468	21.65	5.67	7.04	0.145
		0.13	0.1	556	23.01	5.81	6.51	0.126
		0.18	0.2	605	21.94	5.91	6.62	0.120
		0.25	0.3	429	21.48	5.86	6.28	0.120
		0.3	0.3	366	21.28	5.86	6.21	0.121
		0.4	0.4	261	21.30	5.90	5.99	0.120
		0.5	0.5	200	21.15	5.93	5.98	0.121
		0.95	1.0	162	21.14	5.94	5.81	0.122
		1.15	1.2	143	21.11	5.95	5.72	0.123
MW-3R	Oct-11	1.5	1.6	108	21.09	5.97	5.67	0.123
		1.65	1.7	65.6	21.26	5.97	5.54	0.122
		1.75	1.8	51.4	21.96	6.02	5.39	0.123
		1.85	1.9	48	21.59	6.04	5.47	0.125
		2	2.1	81.8	21.39	5.96	5.54	0.122
		2.25	2.4	79.9	21.37	5.93	5.54	0.118
		2.4	2.5	69.3	21.12	5.95	5.51	0.119
		2.8	2.9	47.4	21.63	6.00	5.39	0.120
		3	3.2	45.8	21.59	6.01	5.36	0.120
	Apr-12	0	0.0	663	22.13	6.14	4.73	0.141
		0.2	0.4	47.4	21.29	5.86	5.29	0.129
		0.25	0.5	31.6	21.07	5.89	5.46	0.127
		0.4	0.8	20.4	20.89	6.01	5.51	0.128
		0.55	1.0	15.6	20.84	6.03	5.60	0.130
		0.75	1.4	11.04	20.88	6.09	5.54	0.131
		0.85	1.6	10.21	21.01	6.17	5.56	0.130
		1	1.9	9.5	20.84	6.02	5.58	0.131
		1.15	2.2	8.62	20.86	6.08	5.56	0.131
		1.25	2.4	8.05	20.84	6.10	5.57	0.131
		1.4	2.6	7.13	20.92	6.06	5.60	0.131
		1.5	2.8	6.85	20.87	6.04	5.60	0.133
		1.65	3.1	6.05	20.84	6.06	5.63	0.132
	Oct-12	0.17	0.78	32.7	21.09	5.78	5.82	0.154
		0.21	1.0	–	21.10	6.20	5.58	0.151
		0.25	1.1	–	21.86	6.16	5.63	0.146
		0.30	1.4	–	21.97	6.19	5.73	0.146
		0.34	1.6	–	22.07	6.22	5.69	0.146
		0.38	1.7	–	23.78	6.24	5.53	0.146
		0.42	1.9	14.3	24.00	6.23	5.71	0.145
	Oct-12	0.45	2.0	–	24.07	6.23	5.86	0.145
		0.48	2.2	–	24.23	6.24	5.82	0.145
		0.50	2.3	7.37	24.41	6.23	5.50	0.145
		0.53	2.4	–	25.06	6.25	5.63	0.145
		0.55	2.5	–	25.33	6.25	5.70	0.145
		0.58	2.6	–	23.97	6.26	5.80	0.145
		0.61	2.8	–	26.21	6.26	5.63	0.145
		0.63	2.9	–	26.44	6.26	5.41	0.145
		0.66	3.0	5.54	26.52	6.26	5.53	0.145
	Apr-13	0.00	0.00	304.00	21.77	5.94	7.27	0.160
		0.20	0.91	233.00	21.44	5.34	5.43	0.128
		0.50	2.27	175.00	21.82	5.88	5.83	0.133
		0.80	3.64	72.50	21.87	5.81	5.97	0.134
		1.00	4.55	26.50	22.28	5.81	6.22	0.135
		1.10	5.00	18.90	22.21	5.87	6.37	0.135
		1.20	5.45	14.20	22.48	5.97	6.55	0.136
		1.30	5.91	7.15	23.02	6.00	6.90	0.136
		1.40	6.36	6.50	22.95	6.70	6.81	0.136
		1.50	6.82	5.90	23.03	5.96	6.73	0.136
MW-4	Mar-96	2	1	17.75	53.1 F	6.19		0.528
		4	2	19.15	57.4 F	5.95		0.587
		6	3	19.29	58.1 F	5.90		0.603
	Nov-97	7	3.5	600	17 C	6.70		0.540
		15	7.5	280	18 C	6.70		0.550
		30	15	100	18 C	6.70		0.550
		35	17.5	48	18 C	6.60		0.550

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		40	20	34.5	18 C	6.70		0.550
	Dec-98	1	0.5		61.2 F	6.81		0.842
		2	1		62.1 F	6.73		0.775
		3	1.5		62 F	6.68		0.812
		4	2		61.9 F	6.77		0.814
	Apr-01	2	1	24	20.2 F	6.10	0.63	0.633
		4	2	20	20 F	6.10	0.27	0.642
		6	3	15	19.7 F	6.09	0.26	0.672
	May-03	not sampled due to well damage						
	Sep-04	not sampled due to well damage						
	May-04	Replaced with MW-4a						
MW-4a	May-04	0.5	1.39	9.6	20.27 C	6.41	1.16	0.747
	May-05	0.9	1.00	459	19.59 C	6.47	1.47	0.512
		1.8	2.00	322	20.05 C	6.46	1.02	0.523
		2	2.22	260	20.04 C	6.48	0.84	0.534
	Jul-06	1.5	1.67	98.6	21.57 C	7.48	0.27	0.334
		3	3.33	41.2	20.64 C	7.44	0.20	0.313
		4.5	5.00	40.1	20.63 C	7.46	0.26	0.341
		5.5	6.11	30.2	20.61 C	7.42	0.25	0.340
	Apr-07	0.3	0.63	22.5	19.19 C	7.32	1.42	1.168
		1.2	2.50	7.5	19.69 C	7.38	0.35	1.205
		1.8	3.75	3.2	19.71 C	7.40	0.53	1.209
	May-07			390	22.9 C	7.53	1.63	1.480
				55.4	22.7 C	7.57	0.78	1.520
	May-07			25.4	23.1 C	7.50	0.37	1.490
				21.8	24.6 C	7.45	0.44	1.490
				16.2	25.1 C	7.46	0.47	1.510
MW-4a	Jun-07			15.3	29.6 C	7.35	0.22	1.420
				14.9	29.7 C	7.39	0.42	1.410
				13.5	29.7 C	7.42	0.44	1.410
	Oct-07	not sampled due to insufficient water in well						
	Apr-08	not sampled due to insufficient water in well						
	Oct-08	not sampled due to insufficient water in well						
	Apr-09	not sampled due to insufficient water in well						
	Oct-09	not sampled due to insufficient water in well						
	Apr-10	0.2	0.19	345	18.18	6.24	1.49	1.434
		0.3	0.28	129	18.25	6.49	2.14	1.443
		0.5	0.47	58.9	18.3	6.61	2.52	1.439
		0.7	0.65	32.2	18.36	6.7	2.71	1.423
		0.9	0.84	19.8	18.4	6.75	2.81	1.400
		1.1	1.03	13.7	18.42	6.81	2.78	1.379
		1.3	1.21	5.44	18.43	6.83	2.77	1.357
		1.5	1.40	4.33	18.45	6.85	2.75	1.337
		1.7	1.59	4.59	18.47	6.86	2.73	1.319
		1.9	1.78	3.12	18.49	6.87	2.72	1.303
		2.1	1.96	4.77	18.49	6.87	2.71	1.294
		2.3	2.15	3.2	18.53	6.88	2.71	1.289
		2.5	2.34	3.83	18.52	6.88	2.71	1.29
		2.7	2.52	2.64	18.5	6.88	2.69	1.293
	Oct-10	0	0.0	187	21.04	6.83	0.72	0.929
		1.35	2.5	1.68	20.35	6.65	0.19	0.925
		1.5	2.7	1.27	20.23	6.63	0.22	0.924
		1.65	3.0	1.33	20.19	6.63	0.19	0.922
		1.8	3.3	1.29	20.16	6.63	0.17	0.920
	Apr-11[a]	0.25	0.6	121	17.85	6.40	6.13	0.923
		0.4	1.0	14.6	18.01	6.57	6.10	0.918
		0.5	1.3	4.65	18.11	6.60	5.85	0.918
		0.6	1.6	4.03	18.12	6.62	5.25	0.920
		0.75	1.9	2.89	18.16	6.62	4.83	0.921
		0.9	2.3	2.09	18.17	6.63	4.70	0.922
		1.075	2.8	5.86	18.19	6.64	4.56	0.927
		1.225	3.2	39.2	18.26	6.64	4.47	0.929
		1.275	3.3	14	18.24	6.64	4.51	0.931
		1.325	3.4	6.11	18.23	6.65	4.44	0.931
		1.375	3.6	4.64	18.28	6.64	4.40	0.931
		1.425	3.7	2.7	18.34	6.64	4.33	0.932
		1.475	3.8	2.88	18.42	6.64	4.38	0.934
		1.575	4.1	5.26	18.48	6.64	4.34	0.936
		1.725	4.5	6.08	18.53	6.64	4.42	0.938
		1.8	4.7	5.98	18.57	6.63	4.42	0.938
		1.875	4.9	5.86	18.64	6.63	4.34	0.939
		1.95	5.1	9.87	18.65	6.63	4.45	9.400
	Oct-11	not sampled due to insufficient water in well						
	Apr-12	not sampled due to insufficient water in well						
	Oct-12	not sampled due to insufficient water in well						
	Oct-13	0	0	41.5	19.01	6.37	0.84	0.852
		0.2	0.5	0.58	19.11	6.42	0.76	0.855
		0.4	1.0	0.87	18.95	6.42	0.72	0.863
		0.6	1.6	0.52	18.92	6.43	0.64	0.868
		1	2.6	0.33	18.91	6.45	0.46	0.867

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.4	3.6	0.21	18.89	6.47	0.37	0.861
		1.6	4.1	0.11	18.86	6.45	0.34	0.855
		1.8	4.7	0.15	18.84	6.48	0.32	0.854
MW-4a	Apr-14	0.5	1.3	24.2	16.57	6.57	0.92	1.012
		1.0	2.6	13.7	15.24	6.51	0.55	1.057
		1.25	3.2	8.08	15.18	6.52	0.42	1.057
		1.5	3.9	5.64	15.29	6.53	0.35	1.030
		1.75	4.5	3.95	14.92	6.53	0.32	1.012
		2.0	5.2	3.39	15.18	6.54	0.29	0.996
		2.25	5.8	2.30	15.21	6.55	0.27	0.985
		2.5	6.5	1.82	15.19	6.55	0.25	0.972
		2.75	7.1	1.73	15.16	6.55	0.23	0.963
		3.0	7.8	1.09	15.25	6.55	0.23	0.955
		3.25	8.4	0.99	15.53	6.55	0.21	0.942
		3.5	9.1	0.8	15.43	6.55	0.21	0.938
		3.75	9.7	0.78	15.49	6.54	0.19	0.930
		4.0	10.4	0.75	15.63	6.56	0.19	0.924
		4.25	11.0	0.73	15.59	6.55	0.18	0.920
		4.50	11.66	0.72	15.56	6.56	0.17	0.917
MW-4a	Oct-14	0.50	0.76	19.70	18.50	6.19	0.50	0.879
		1.25	1.89	4.20	18.57	6.27	0.42	0.905
		2.00	3.03	3.47	18.61	6.30	0.41	0.897
		2.75	4.17	3.05	18.85	6.32	0.44	0.894
		3.00	4.55	3.40	18.78	6.32	0.45	0.888
		3.50	5.30	3.15	18.88	6.33	0.45	0.882
	Apr-15	0.40	0.61	17.30	19.58	6.42	0.51	0.888
		0.60	0.91	11.74	19.39	6.44	0.39	0.890
		0.75	1.14	6.01	19.65	6.46	0.27	0.893
		1.00	1.52	3.32	19.74	6.46	0.21	0.892
		1.20	1.82	2.03	19.76	6.47	0.19	0.895
		1.40	2.12	1.76	19.99	6.47	0.17	0.897
		1.50	2.27	1.04	19.75	6.46	0.16	0.899
		1.75	2.65	0.97	19.74	6.47	0.15	0.902
		2.00	3.03	0.75	20.07	6.47	0.14	0.901
MW-4b	May-04	0.1	0.012	7.4	20.89 C	10.62	8.56	0.343
		0.15	0.017	5	21.32 C	10.52	8.27	0.345
		0.2	0.023	4.4	21.44 C	10.47	7.99	0.345
		0.3	0.035	4.2	21.07 C	10.48	8.02	0.356
		0.5	0.058	4.1	21.28 C	10.47	7.74	0.353
		0.75	0.087	4.1	21.43 C	10.46	7.69	0.351
	Apr-07	5	0.400	138	19.87 C	9.64	2.33	0.190
		12	0.960	69.6	20.24 C	10.37	0.33	0.485
		14	1.120	319	18.81 C	9.77	1.35	0.389
		15	1.200	90.5	20.75 C	9.76	1.19	0.379
		15.5	1.240	67.7	19.38 C	9.62	3.63	0.384
		16	1.280	416	24.54 C	7.53	5.00	0.001
		20	1.600	30.5	24.51 C	7.51	4.95	0.030
	Oct-07[a]	0.1	0.012	234	21.13 C	8.13	4.49	0.571
		0.3	0.035	194	20.31 C	8.23	1.42	0.584
		0.6	0.069	23.9	20.29 C	8.02	0.27	0.583
		0.95	0.110	50.5	20.28 C	7.88	0.07	0.583
		1.2	0.138	47.3	20.31 C	7.81	0.11	0.582
		1.5	0.173	53.9	20.93 C	7.80	0.03	0.583
		1.8	0.208	55.3	20.50 C	7.79	0.02	0.583
		2.05	0.236	46.4	20.20 C	7.76	0.03	0.582
		2.15	0.248	40	21.30 C	7.74	0.03	0.582
		2.4	0.277	34.7	21.45 C	7.74	0.01	0.580
		2.6	0.300	34.1	20.96 C	7.74	0.04	0.582
		2.85	0.329	28.4	20.86 C	7.70	0.01	0.580
MW-4b	Oct-07[a]	3.05	0.352	27.3	20.87 C	7.70	0.02	0.580
		3.1	0.358	25.2	21.32 C	7.71	0.02	0.581
		3.25	0.375	24.1	20.95 C	7.72	0.00	0.580
		3.5	0.404	22	20.77 C	7.70	0.01	0.580
		3.75	0.433	20.9	20.67 C	7.69	0.05	0.579
		4	0.461	18.9	20.42 C	7.66	0.03	0.579
		4.2	0.484	19.1	20.27 C	7.65	0.03	0.578
		4.3	0.496	17	20.24 C	7.64	0.04	0.578
		4.5	0.519	17.2	20.88 C	7.63	0.03	0.577
		4.7	0.542	14.7	19.97 C	7.62	0.03	0.577
		4.95	0.571	15	19.92 C	7.61	0.05	0.576
		5.2	0.600	14.2	19.75 C	7.59	0.04	0.576
		5.25	0.606	49.7	16.75 C	7.58	6.00	0.588
		5.4	0.623	14.4	17.18 C	7.82	1.46	0.606
		5.65	0.652	11.1	17.59 C	7.82	0.42	0.561
		6.1	0.704	9.15	17.65 C	7.80	0.31	0.553
		6.25	0.721	9.23	17.60 C	7.76	0.30	0.551
		6.45	0.744	8.18	17.67 C	7.79	0.31	0.550
		6.6	0.761	7.81	17.62 C	7.79	0.31	0.550
	Apr-08[a]	0.45	0.053	213	17.60 C	8.31	1.14	0.565
		1	0.117	30.3	17.47 C	7.91	0.14	0.564

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.3	0.152	18.1	17.41 C	7.81	0.12	0.563
		1.8	0.211	15.3	17.51 C	7.76	0.11	0.562
		2.25	0.263	12.5	17.57 C	7.74	0.11	0.562
		2.5	0.292	11.6	17.13 C	7.71	0.12	0.562
		2.7	0.316	10.9	16.45 C	7.71	0.10	0.562
		2.71	0.317	12.3	16.39 C	7.70	0.09	0.561
		2.9	0.339	15.1	16.87 C	7.68	0.08	0.560
		3.1	0.363	8.15	17.42 C	7.73	0.07	0.562
	Oct-08[a]	1	0.119	36.5	18.14 C	9.87	0.72	0.506
		2	0.238	38.3	18.16 C	9.97	0.44	0.506
		2.75	0.328	58.1	18.42 C	10.29	0.38	0.512
		3.5	0.417	366	18.62 C	10.34	0.39	0.511
		4	0.477	209	18.08 C	10.04	0.47	0.508
		4.5	0.536	145	18.15 C	9.92	0.58	0.506
		5.25	0.626	74.3	18.52 C	9.47	1.39	0.505
		5.75	0.685	40.7	18.2 C	9.73	0.47	0.506
		6	0.715	31.6	16.76 C	9.86	0.47	0.506
		6.2	0.739	31.3	18.24 C	9.71	0.60	0.504
		7	0.834	25.4	18.96 C	9.58	0.70	0.505
		7.5	0.894	24.6	18.62 C	9.50	0.69	0.505
		8.5	1.013	639	19.57 C	9.83	0.53	0.515
		0.05	0.006	52.1	13.62 C	9.20	4.66	0.521
		0.2	0.024	32.4	13.2 C	8.94	2.79	0.516
		0.27	0.032	37.5	12.02 C	8.72	1.64	0.515
		0.3	0.036	35.3	9.65 C	8.52	1.67	0.512
		0.35	0.042	30.2	8.99 C	8.42	1.78	0.513
		0.37	0.044	26.5	8.35 C	8.30	1.90	0.512
		0.4	0.048	30.1	9.86 C	8.34	1.99	0.514
		0.5	0.060	30.1	11.2 C	8.35	1.69	0.513
		0.6	0.072	30.4	11.92 C	8.26	1.93	0.512
		0.75	0.089	29.6	12.06 C	8.24	1.33	0.512
		0.85	0.101	29.5	11.25 C	8.21	1.02	0.511
		0.95	0.113	29.7	9.91 C	8.12	1.03	0.510
		0.97	0.116	28.5	9 C	8.05	1.08	0.511
		0.99	0.118	28.4	8.72 C	7.95	1.18	0.510
		1.05	0.125	28.7	8.9 C	7.95	1.45	0.512
		1.15	0.137	27.7	10.73 C	8.53	1.50	0.513
		1.2	0.143	28	11.23 C	8.52	1.62	0.512
		1.25	0.149	28.1	13.23 C	8.52	1.72	0.513
		1.27	0.151	27.8	13.86 C	8.49	1.42	0.514
		1.3	0.155	27.2	14.14 C	8.48	1.40	0.514
	Apr-09[a]	0	0.000		16.78 C	7.61	4.46	0.581
		0	0.000		16.43 C	7.59	0.41	0.590
		0.05	0.006	14.9	16.1 C	7.59	0.15	0.590
		0.05	0.006	14.1	15.89 C	7.64	0.06	0.590
		0.05	0.006	18.1	15.91 C	7.77	0.19	0.592
		0.1	0.012		16.26 C	7.62	0.16	0.591
		0.15	0.018		17.08 C	7.90	0.10	0.597
		0.25	0.030	23.7	17.24 C	7.93	0.08	0.600
		0.3	0.036		17.74 C	7.94	0.04	0.602
		0.35	0.042	17.8	18.02 C	7.95	0.05	0.603
		0.4	0.048	18.3	18.16 C	7.95	0.06	0.603
		0.4	0.048		18.44 C	7.96	0.22	0.603
		0.45	0.054		19.01 C	7.96	0.10	0.603
		0.5	0.060		19.49 C	7.96	0.09	0.604
		0.5	0.060	15.9	19.94 C	7.96	0.04	0.605
		0.5	0.060	15.1	19.86 C	7.96	0.03	0.606
		0.5	0.060	13.8	19.69 C	7.95	0.06	0.606
		0.5	0.060		19.66 C	7.95	0.07	0.606
		0.5	0.060		19.81 C	7.94	0.05	0.606
MW-4b	Apr-09[a]	0.5	0.060		19.72 C	7.95	0.06	0.607
		0.5	0.060		19.51 C	7.98	0.05	0.607
		0.5	0.060		19.36 C	7.94	0.04	0.607
		0.5	0.060		19.38 C	7.94	0.06	0.607
		0.55	0.066		19.61 C	7.95	0.03	0.607
		0.55	0.066		20.21 C	7.98	0.05	0.607
		0.55	0.066		20.27 C	7.98	0.05	0.608
		0.6	0.072		19.89 C	8.02	0.05	0.606
		0.6	0.072	12.4	19.93 C	8.02	0.04	0.607
		0.6	0.072	12.5	20.01 C	8.02	0.04	0.607
		0.65	0.078	12.5	20.08 C	7.98	0.04	0.607
		0.65	0.078		20.15 C	8.02	0.04	0.607
		0.65	0.078	12.3	20.18 C	8.09	0.05	0.607
		0.65	0.078	12.4	20.19 C	8.05	0.04	0.607
	Oct-09	0.5	0.060	127.7	18.50 C	9.29	0.35	0.575
		1	0.120	63.3	18.60 C	9.43	0.27	0.573
		1.25	0.150	37.7	18.79 C	9.32	0.22	0.572
		1.5	0.180	23.9	18.82 C	9.49	0.19	0.574
		1.6	0.192	21.6	18.81 C	9.40	0.15	0.571
		1.65	0.198	18.9	18.83 C	9.42	0.16	0.574

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.75	0.210	16.02	19.02 C	9.44	0.15	0.571
		1.8	0.216	27.7	19.13 C	9.49	0.16	0.571
		1.925	0.231	14.41	19.26 C	9.47	0.33	0.570
		1.97	0.236	13.19	19.17 C	9.50	0.26	0.570
		2.1	0.251	11.42	19.06 C	9.50	0.25	0.570
		2.15	0.257	10.61	18.76 C	9.50	0.26	0.570
		2.18	0.261	16.09	18.82 C	9.44	0.18	0.569
		2.25	0.269	8.21	19.57 C	9.65	1.25	0.569
		2.3	0.275	7.73	19.18 C	9.60	0.84	0.569
		2.34	0.280	7.15	19.11 C	9.53	0.82	0.568
	Apr-10	0.2	0.021	29.9	19.57	6.89	1.44	0.409
		0.4	0.042	18	19.12	7.36	0.52	0.493
		0.6	0.063	15.6	19.01	7.50	0.35	0.506
		0.9	0.094	12.5	19.02	7.54	0.31	0.507
		1.1	0.115	11.7	19.14	7.58	0.28	0.508
		1.3	0.136	17.4	19.23	7.57	0.26	0.508
		1.5	0.157	13	19.38	7.60	0.26	0.508
		1.7	0.178	9.65	19.43	7.62	0.25	0.508
		1.8	0.188	13.6	19.59	7.63	0.24	0.508
		1.9	0.199	13.8	19.75	7.65	0.24	0.508
		2.05	0.214	12.2	19.57	7.66	0.23	0.508
		2.1	0.219	11.5	19.54	7.65	0.23	0.508
		2.25	0.235	9.8	19.55	7.66	0.23	0.508
	Oct-10	0	0.0	263	18.70	6.84	3.86	0.382
		3	0.3	3.87	18.51	8.01	0.42	0.508
		6	0.6	3.34	18.94	7.87	0.27	0.507
		8.5	0.9	2.73	19.20	7.72	0.23	0.488
		8.7	0.9	2.82	19.20	7.72	0.23	0.485
		8.9	1.0	2.49	19.19	7.72	0.23	0.483
	Apr-11[a]	0.25	0.028	110	21.06	7.81	5.59	0.404
		0.35	0.040	32.3	20.34	7.95	3.39	0.489
		0.45	0.051	19.3	21.06	7.94	2.79	0.493
		0.6	0.068	17	21.53	7.84	2.55	0.490
		0.8	0.090	11.6	21.62	7.78	2.60	0.485
		1	0.113	8.22	21.8	7.75	2.55	0.482
		1.2	0.136	6.48	21.99	7.73	2.53	0.477
		1.4	0.158	6.13	22.28	7.73	2.45	0.475
		1.5	0.169	6.24	22.3	7.72	2.46	0.470
		1.6	0.181	4.83	22.38	7.73	2.54	0.468
		1.7	0.192	4.93	22.16	7.73	2.58	0.466
		1.8	0.203	4.94	21.72	7.74	2.54	0.464
		1.9	0.215	5.11	21.78	7.75	2.54	0.463
		2	0.226	5.01	21.76	7.75	2.59	0.460
		2.05	0.232	4.93	21.48	7.75	2.62	0.461
		2.1	0.237	4.84	21.44	7.76	2.65	0.459
		2.15	0.243	5.13	21.54	7.76	2.61	0.459
	Oct-11	0.15	0.0	>1000	19.95	8.99	2.44	0.444
		0.25	0.0	259	19.24	8.79	1.29	0.459
		0.35	0.0	109	19.20	8.72	1.11	0.459
		0.45	0.1	54	18.99	8.46	0.89	0.451
		0.75	0.1	42.3	18.97	8.31	0.75	0.447
MW-4b	Oct-11	0.85	0.1	29.5	18.87	8.05	0.61	0.441
		1	0.1	21.3	18.91	7.93	0.5	0.437
		1.2	0.1	16.5	18.92	7.89	0.44	0.436
		1.4	0.2	12.9	18.97	7.87	0.39	0.436
		1.6	0.2	8.95	18.92	7.85	0.36	0.436
		1.8	0.2	7.90	18.92	7.84	0.33	0.435
		2	0.2	9.11	18.90	7.82	0.32	0.435
		2.2	0.3	7.2	18.94	7.80	0.33	0.433
		2.4	0.3	7.67	18.90	7.78	0.34	0.432
		2.6	0.3	7.37	18.81	7.76	0.38	0.431
		2.8	0.3	7.35	18.91	7.74	0.42	0.429
		3.25	0.4	5.81	18.85	7.73	0.46	0.429
		3.5	0.4	5.76	18.87	7.74	0.48	0.429
	Apr-12	0.25	0.03	>1000	17.68	8.62	0.53	0.420
		1	0.12	7.69	18.01	7.87	0.29	0.412
		2	0.25	6.24	18.36	7.71	0.20	0.410
		2.6	0.32	4.11	18.37	7.69	0.18	0.410
		3.1	0.38	2.08	18.41	7.69	0.16	0.409
		3.5	0.43	3.75	18.61	7.71	0.16	0.408
		3.6	0.45	3.12	18.78	7.73	0.14	0.407
		3.8	0.47	2.2	19.13	7.68	0.15	0.406
		4.1	0.51	1.9	19.21	7.71	0.13	0.405
		4.3	0.53	2.1	19.25	7.74	0.14	0.405
		4.5	0.56	1.68	19.65	7.73	0.14	0.405
	Oct-12	0.53	0.07	45.7	19.05	8.41	4.03	0.403
		1.32	0.16	6.17	19.08	7.84	0.72	0.397
		2.11	0.26	5.32	19.17	7.61	0.30	0.389
		2.91	0.36	4.17	19.21	7.49	0.14	0.380
		3.63	0.45	12.83	19.27	7.36	0.09	0.368

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		4.29	0.53	2.88	19.33	7.22	0.05	0.357
		4.89	0.60	1.72	19.41	7.13	0.05	0.350
		5.42	0.67	–	19.55	7.07	0.05	0.344
		5.88	0.73	–	20.48	7.06	0.03	0.336
		6.27	0.77	–	20.52	7.06	0.02	0.328
		6.80	0.84	–	21.7	7.06	0.02	0.319
		7.07	0.87	–	21.54	7.07	0.04	0.316
		7.13	0.88	2.11	22.16	7.08	0.04	0.314
		7.26	0.90	–	22.85	7.09	0.03	0.314
	Apr-13	0	0	70.5	19.68	7.23	1.31	0.412
		1	0.1	12.7	19.79	7.69	0.61	0.427
		1.5	0.2	6.58	19.8	7.94	0.44	0.427
		2	0.2	6.22	19.94	7.84	0.33	0.427
		2.2	0.3	6.02	19.63	7.47	0.24	0.425
		2.5	0.3	6	19.84	7.49	0.22	0.424
		2.7	0.3	5.6	19.9	7.49	0.2	0.422
		2.9	0.4	5.5	19.92	7.47	0.2	0.421
	Oct-13	0	0.0	0.60	18.61	7.51	0.37	0.322
		0.2	0.0	0.42	18.60	7.56	0.33	0.327
		0.4	0.0	0.63	18.68	7.56	0.22	0.328
		0.5	0.1	0.37	18.80	7.56	0.19	0.330
		0.6	0.1	1.25	18.89	7.58	0.18	0.332
		7.26	0.90	–	22.85	7.09	0.03	0.314
	Apr-14	0	0.0	>1000	18.35	6.78	0.72	0.360
		0.25	0.0	124	18.24	8.33	0.43	0.386
		0.5	0.1	25.6	19.15	8.46	0.32	0.387
		1.00	0.1	12.8	19.07	8.27	0.27	0.387
		1.25	0.2	8.70	19.23	8.02	0.22	0.386
		1.50	0.2	7.13	19.08	7.77	0.19	0.384
		1.75	0.2	6.70	19.05	7.64	0.19	0.382
		2.25	0.3	6.15	19.08	7.60	0.20	0.380
		2.75	0.3	4.74	19.16	7.59	0.21	0.379
		3.00	0.4	4.56	19.13	7.60	0.22	0.379
MW-4b	Oct-14	0.5	0.1	116	18.65	8.24	0.64	0.395
		1	0.1	13.9	18.55	7.79	0.47	0.398
		2.00	0.2	5.12	18.73	7.53	0.47	0.396
		2.5	0.3	4.98	18.77	7.44	0.35	0.392
		3.00	0.3	4.7	19.13	7.34	0.09	0.383
		3.50	0.4	2.89	19.2	7.3	0.06	0.379
		3.75	0.4	2.17	19.34	7.27	0.05	0.375
	Apr-15	0.1	0.0	12.7	14.63	5.9	2.12	0.207
		0.25	0.0	22.7	16.98	7.82	0.53	0.397
		0.75	0.1	9.51	17.3	7.92	0.35	0.398
		1	0.1	5.77	16.87	7.69	0.31	0.394
		1.2	0.1	5.44	16.94	7.53	0.27	0.39
		1.4	0.1	5.3	17.08	7.49	0.25	0.388
		1.7	0.2	5.17	17.13	7.46	0.23	0.386
		1.85	0.2	4.99	17.22	7.45	0.22	0.384
MW-5	Mar-96	5	1	17.98	56.2 F	7.05		0.136
		10	2	1.31	57.8 F	7.20		0.153
		15	3	3.25	55 F	7.22		0.131
	Nov-97	0	0	55.6	19 C	8.20		0.130
		15	3	3.79	19 C	8.20		0.110
		20	4	0.89	19 C	7.70		0.110
	Dec-98	1.5	0.3		62.2 F	6.68		1.100
		2.5	0.5		66.2 F	7.19		0.155
		4	0.8		66.3 F	7.54		0.209
		6	1.2		64.07 F	7.71		0.140
		8	1.6		65.9 F	7.84		0.310
	Dec-98	10	2		65.8 F	7.48		0.274
		12	2.4		64.9 F	7.84		0.248
		14	2.8		65.2 F	7.83		0.242
		16	3.2		61.4 F	7.82		0.202
	Apr-01	5	1	2	21.1 C	7.43	1.21	0.146
		10	2	13	21.0 C	7.53	3.05	0.131
		15	3	5	21.0 C	7.51	3.10	0.129
	May-02	5	1	87	22.3 C	5.45	0.60	0.167
		10	2	157	21.7 C	5.85	0.56	0.163
		15	3	91	21.6 C	5.95	0.53	0.161
	Sep-03	5	1	46	20.9 C	7.15	1.97	0.110
		10	2	20	21.1 C	7.38	1.23	0.108
		15	3	9.8	21.4 C	7.52	1.49	0.106
	May-04	1	0.21	2.4	21.41 C	7.15	1.21	0.115
		2.5	0.53	-4.8	22.71 C	7.38	0.77	0.111
		4	0.84	-5.2	22.91 C	7.43	0.65	0.111
	Jul-06	4.6	0.97	33.8	21.53 C	7.34	0.04	0.073
		9.2	1.94	6.4	21.75 C	7.63	0.02	0.071
		13.8	2.91	8.6	21.74 C	7.70	0.13	0.071
	Apr-07	2.5	0.54	8.54	20.99 C	7.19	3.11	0.128
		5	1.08	5.14	20.99 C	7.14	0.59	0.120

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		7.5	1.61	1.85	20.81 C	7.20	0.40	0.114
		10	2.15	2.23	20.92 C	7.20	0.35	0.116
		12	2.58	3.96	20.98 C	7.16	0.44	0.117
		14	3.01	3.11	20.98 C	7.18	1.04	0.115
	Oct-07	1	0.23	14.8	20.74 C	7.42	0.56	0.167
		1.5	0.34	5.5	21.16 C	7.33	0.44	0.151
		2.5	0.57	3.3	21.18 C	7.32	0.36	0.142
		3	0.69	3.1	21.16 C	7.34	0.34	0.138
	Apr-08[a]	4	0.86	8.26	21.36 C	6.96	0.60	0.150
		5.5	1.18	6.13	21.38 C	6.98	0.61	0.139
		6.5	1.40	4.45	21.48 C	7.03	0.56	0.134
		7.5	1.61	1.61	21.42 C	7.11	0.42	0.130
		9.25	1.99	0.75	21.45 C	7.21	0.31	0.125
		10.5	2.26	1.81	21.37 C	7.19	0.47	0.125
		11.5	2.47	1.08	21.46 C	7.22	0.28	0.124
		13	2.80	0.68	21.56 C	7.22	0.27	0.124
		13.75	2.96	0.9	21.50 C	7.24	0.28	0.123
		14.25	3.06	0.39	21.71 C	7.23	0.28	0.123
	Oct-08	0.5	0.12	16.5	20.69 C	6.85	0.70	0.158
		1.5	0.35	12.1	21.01 C	6.58	0.53	0.151
		2	0.47	8.63	20.97 C	6.51	0.45	0.142
		2.5	0.59	8.34	20.95 C	6.53	0.45	0.142
	Apr-09	0.5	0.11	22.5	20.13 C	6.82	1.19	0.153
		1	0.21	23.9	19.34 C	6.91	1.33	0.153
		1.2	0.26	18.8	18.54 C	6.92	1.27	0.149
		1.3	0.28	12.8	18.46 C	6.94	1.07	0.143
		1.4	0.30	6.82	18.31 C	6.97	0.80	0.135
		1.5	0.32	6.49	18.29 C	6.99	0.68	0.133
		1.6	0.34	15.2	20.39 C	6.95	0.98	0.136
		1.8	0.38	9.75	19.70 C	6.94	1.26	0.138
		2	0.43	4.33	19.60 C	7.00	0.76	0.132
	Oct-09	0.75	0.15	16.42	20.80 C	7.42	0.46	0.144
		1.25	0.26	15.88	21.00 C	7.35	0.31	0.134
		2	0.41	24.5	21.30 C	7.30	0.23	0.129
		2.75	0.56	26	21.31 C	7.27	0.21	0.129
		3.25	0.67	26.1	21.35 C	7.29	0.22	0.128
		3.8	0.78	14.51	21.51 C	7.34	0.19	0.129
		4.3	0.88	15.44	21.43 C	7.35	0.17	0.127
		5	1.03	8.66	21.43 C	7.32	0.18	0.128
		6	1.23	8.43	21.55 C	7.35	0.22	0.127
	Apr-10	1	0.20	15.5	20.92	7.56	0.33	0.141
		2	0.41	14.2	21.02	7.17	0.09	0.124
		3	0.61	17.4	21.16	7.09	0.12	0.122
		3.5	0.72	17.1	21.12	7.09	0.16	0.122
		4	0.82	13.1	21.06	7.13	0.16	0.122
		4.25	0.87	7.46	21.28	7.13	0.10	0.122
		4.5	0.92	8.87	21.2	7.13	0.11	0.122
MW-5	Oct-10	0.25	0.1		21.44	7.16	0.99	0.123
		3.5	0.8	43.9	19.74	7.29	1.71	0.132
		3	0.6	31.1	21.52	7.23	0.26	0.122
		5	1.1	19.6	20.86	7.37	0.53	0.124
		6.5	1.4	5.62	21.06	7.36	0.64	0.124
		7	1.5	2.58	21.12	7.40	0.32	0.125
		7.5	1.6	3.31	21.00	7.40	0.32	0.125
	Apr-11	1	0.2	20.5	21.18	7.62	1.48	0.130
		2	0.4	20.15	21.19	7.56	1.25	0.127
		3	0.6	19.4	21.18	7.48	1.17	0.126
		4.5	0.9	13.9	21.25	7.42	1.03	0.126
		5	1.0	14.5	21.18	7.40	0.96	0.127
		5.1	1.0	9.51	21.16	7.44	0.90	0.128
		5.15	1.0	6.31	21.23	7.51	0.79	0.128
		5.25	1.1	5.93	21.23	7.49	0.78	0.129
	Oct-11	0.75	0.2	91.2	20.78	7.24	0.79	0.121
		1.5	0.3	34.9	21.37	7.27	0.74	0.119
		2.25	0.5	27.9	21.11	7.10	0.84	0.119
		3	0.7	12.6	21.67	7.25	0.67	0.120
		3.75	0.8	9.58	21.78	7.10	0.64	0.119
		4.5	1.0	8.97	21.57	7.19	0.65	0.120
		5.25	1.2	17.3	21.26	6.91	4.55	0.119
		6	1.3	15.6	21.70	7.32	3.02	0.121
		6.75	1.5	16	22.35	7.29	1.59	0.121
		7.5	1.6	12.3	22.15	7.15	1.47	0.121
		8.25	1.8	18.4	22.08	7.31	0.81	0.122
		9	2.0	5.90	22.41	7.24	0.91	0.122
		9.75	2.1	5.76	22.26	7.28	0.61	0.123
		10.5	2.3	1.98	22.52	7.28	0.62	0.124
		11.25	2.5	0.93	22.82	7.3	0.52	0.125
		12	2.6	0.87	22.72	7.38	0.41	0.126
		12.75	2.8	5.59	22.63	7.36	0.44	0.126
		13.5	3.0	13.0	22.14	7.08	0.91	0.124

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		14.25	3.1	8.97	21.54	6.99	0.78	0.123
		15	3.3	0.79	21.54	7.08	0.4	0.126
	Apr-12	1.00	0.2	13.2	20.57	7.25	0.79	0.134
		2.00	0.4	5.84	20.80	7.12	0.57	0.123
		2.75	0.6	7.94	20.69	7.02	0.56	0.122
		4.00	0.8	8.25	20.83	7.01	0.53	0.122
		4.75	1.0	5.27	20.97	7.00	0.40	0.122
		5.50	1.1	5.72	21.07	6.93	0.42	0.121
		6.25	1.3	4.88	21.02	6.92	0.37	0.121
		7.25	1.5	3.88	21.04	6.96	0.33	0.121
		8.00	1.7	1.9	21.10	6.99	0.30	0.121
		9.00	1.9	1.29	21.13	6.99	0.29	0.121
		10.00	2.1	1.26	21.04	6.97	0.30	0.121
		10.75	2.2	1.06	21.08	6.96	0.28	0.120
	Apr-12	11.50	2.4	1.14	21.05	6.94	0.26	0.121
		13.00	2.7	1.22	21.03	6.91	0.26	0.119
		14.00	2.9	0.87	21.04	6.92	0.24	0.119
		14.75	3.1	0.8	21.03	6.93	0.23	0.118
	Oct-12	1.00	0.2	17.1	20.75	7.51	0.71	0.134
		2.00	0.4	7.05	21.11	7.13	0.49	0.124
		3.75	0.8	3.46	21.12	7.08	0.51	0.122
		4.75	1.1	2.78	21.17	7.10	0.53	0.122
		5.75	1.3	3.6	21.17	7.14	0.47	0.121
		6.75	1.5	1.27	21.27	7.24	0.32	0.122
		7.75	1.7	1.96	21.16	7.28	0.27	0.121
		8.75	1.9	2.36	21.25	7.16	0.42	0.121
		9.75	2.2	2.15	21.23	7.26	0.24	0.119
		10.75	2.4	2.49	21.27	7.30	0.21	0.118
		11.75	2.6	1.75	21.21	7.33	0.19	0.117
		12.75	2.8	1.86	21.31	7.34	0.17	0.116
		13.75	3.0	1.53	21.31	7.33	0.17	0.116
		14.75	3.3	1.23	21.27	7.34	0.16	0.115
		15.75	3.5	0.8	21.37	7.36	0.14	0.115
		16.5	3.7	0.76	21.40	7.34	0.16	0.115
	Apr-13	1.00	0.22	22.60	20.98	6.50	0.34	0.118
		3.00	0.67	9.01	21.23	6.66	0.26	0.116
		6.00	1.33	5.90	21.19	6.70	0.29	0.113
		8.00	1.77	2.21	21.20	6.80	0.15	0.113
		9.50	2.11	1.58	21.23	6.86	0.12	0.113
		11.00	2.44	1.25	21.20	6.92	0.10	0.112
		13.00	2.88	1.04	21.20	6.90	0.09	0.112
		14.00	3.10	1.01	21.23	6.92	0.08	0.111
		15	3.3	0.98	21.25	6.91	0.07	0.111
MW-6	Mar-96	4	0.9		57.1 F	5.06		0.742
		8	1.7		58.5 F	5.32		0.820
		11.5	2.5		57.7 F	5.27		0.860
	Nov-97	0	0.0	84.4	17 C	7.10		0.770
		35	7.6	19.6	17 C	7.20		0.750
		55	12.0	21.1				
	Dec-98	3.61	0.8		66.2 F	6.71		0.976
		5.61	1.2		67.7 F	6.74		0.818
		6	1.3		67.1 F	6.70		0.792
		7	1.5		67.5 F	6.73		0.791
		9	2.0		66.6 F	6.74		0.798
		11	2.4		66.9 F	6.72		0.786
	Apr-01	4	0.9	1	21.3 C	6.51	0.26	0.448
		8	1.7	0	20.7 C	6.61	0.03	0.528
		12	2.6	0	20.4 C	6.48	-0.13	0.535
	May-02	3	0.7	42	20.7 C	6.00	0.22	0.597
		6	1.3	28	20.6 C	5.92	0.11	0.595
		9	2.0	96	20.6 C	5.93	0.82	0.576
	Sep-03	5	1.1	0	20.4 C	6.25	0.31	0.211
		10	2.2	0	20.4 C	6.28	0.27	0.227
		15	3.3	0	20.4 C	6.34	0.26	0.227
	May-04	2	0.6	9.7	22.08 C	6.81	1.09	0.438
		3	0.9	9.2	24.12 C	6.81	0.65	0.448
		4	1.3	8.4	23.36 C	6.81	0.61	0.453
		4.5	1.4	7.7	23.56 C	6.81	0.58	0.450
	Jul-06	3.3	1.0	51	20.1 C	7.11	1.22	0.295
		6	1.9	10	19.97 C	7.17	0.64	0.391
		9	2.8	8.1	19.99 C	7.18	0.62	0.409
	Apr-07	1	0.3	57.2	21.06 C	6.98	0.70	0.511
		3	0.9	6.32	21.08 C	7.02	0.25	0.517
		5	1.6	2.34	21.03 C	7.00	0.22	0.505
		7.5	2.4	1.52	20.86 C	6.99	0.20	0.495
		10	3.2	1.1	21.34 C	6.98	0.20	0.479
	Oct-07	0.3	0.1	65.7	20.94 C	6.45	0.61	0.191
		0.8	0.2	62.2	21.21 C	6.43	0.46	0.188
		1.1	0.2	48.4	21.26 C	6.41	0.49	0.186
		1.8	0.4	5.48	21.53 C	6.46	0.33	0.199

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		2.4	0.5	3.32	21.63 C	6.48	0.24	0.209
		2.8	0.6	3.8	21.51 C	6.49	0.23	0.210
		3.3	0.7	2.2	21.86 C	6.48	0.21	0.208
	Apr-08	0.5	0.1	27.9	20.71 C	6.44	0.63	0.105
		1	0.3	16.7	20.64 C	6.32	0.44	0.111
		2	0.6	6.25	20.41 C	6.32	0.32	0.138
		3	0.8	8.62	20.35 C	6.37	0.26	0.164
	Oct-08	0.75	0.2	90.4	19.97 C	8.23	1.11	0.210
		1.25	0.4	21.7	20.2 C	8.24	0.71	0.347
		2.5	0.8	8.69	20.24 C	8.21	0.61	0.380
		4	1.3	5.89	20.24 C	8.16	0.55	0.382
	Apr-09	0.5	0.1	54.3	19.93 C	6.67	0.70	0.201
		1	0.3	27.3	20.36 C	6.65	0.60	0.202
		1.5	0.4	12.5	20.5 C	6.68	0.43	0.210
		2	0.6	6.22	20.3 C	6.69	0.40	0.217
		2.5	0.7	4.3	20.43 C	6.69	0.35	0.222
	Oct-09[a]	0.5	0.1	85.1	20.07 C	6.31	0.72	0.144
		1.25	0.4	38.2	20.54 C	6.32	0.49	0.138
		1.65	0.5	23.8	20.98 C	6.26	0.41	0.148
		2.5	0.7	27.9	21.06 C	6.39	0.35	0.167
		3.4	1.0	25.3	21.01 C	6.41	0.39	0.188
		4.25	1.2	15.95	20.91 C	6.49	0.29	0.199
		5	1.4	15.98	20.79 C	6.49	0.25	0.203
		6	1.7	13.19	20.86 C	6.53	0.22	0.207
		7.1	2.0	13.32	20.98 C	6.51	0.21	0.216
		8.25	2.3	14.42	20.87 C	6.60	0.24	0.219
		9.75	2.7	12.66	20.67 C	6.66	0.29	0.223
		10.5	2.9	12.66	20.68 C	6.67	0.28	0.224
		11.5	3.2	14.84	20.65 C	6.69	0.25	0.223
		12.5	3.5	11.8	20.86 C	6.72	0.27	0.224
		13.8	3.9	11.19	20.68 C	6.68	0.28	0.224
		14.1	3.9	11.66	20.61 C	6.61	0.37	0.225
		14.75	4.1	9.91	20.89 C	6.74	0.34	0.225
	Apr-10	1	0.3	133	21.24	5.61	0.24	0.119
		2	0.6	85.3	21.17	5.65	0.29	0.132
		3	0.8	47.1	21.19	6.12	0.31	0.208
		3.75	1.1	32.9	21.65	6.31	0.25	0.234
		4.5	1.3	53.8	21.91	6.39	0.21	0.245
		6	1.7	23	21.19	6.31	0.19	0.255
		7	2.0	115	21.15	6.35	0.16	0.260
		8	2.2	13.8	21.2	6.41	0.16	0.269
		9	2.5	8.59	21.11	6.38	0.14	0.281
		11	3.1	4.95	21.07	6.46	0.12	0.283
		12	3.4	3.28	21.13	6.48	0.11	0.288
		13	3.6	2.95	21.14	6.48	0.09	0.292
		14	3.9	3.06	21.16	6.48	0.09	0.291
		16	4.5	2.65	21.16	6.49	0.07	0.292
	Oct-10	0.5	0.2	4.91	21.21	7.04	0.56	0.530
		1	0.4	1.08	21.05	7.01	0.49	0.533
		2	0.7	0.74	21.04	7.00	0.51	0.516
		2.5	0.9	0.81	21.41	7.00	0.51	0.518
		3	1.1	0.57	21.40	7.00	0.47	0.518
	Apr-11[a]	0.5	0.1	130	19.67	6.55	2.58	0.306
		0.75	0.2	72.3	20.40	6.51	2.07	0.295
		1.25	0.4	28.5	20.43	6.50	2.08	0.280
		2	0.6	16.4	20.49	6.48	2.01	0.284
		2.75	0.8	6.45	20.44	6.49	2.24	0.286
		4.5	1.3	4.06	20.37	6.50	2.18	0.289
		5	1.5	3.25	20.37	6.50	2.13	0.292
	Oct-11	1.25	0.5	3.40	20.47	7.05	0.36	0.419
		2.5	0.9	2.59	20.52	7.02	0.37	0.430
		3.75	1.4	3.84	20.60	7.01	0.42	0.432
		5	1.9	8.91	20.18	6.92	1.23	0.421
		5.75	2.1	6.73	21.13	6.94	0.43	0.430
		8.75	3.3	5.19	20.38	6.79	0.14	0.415
		10	3.7	3.75	20.39	6.86	0.15	0.405
		11.5	4.3	3.95	20.39	6.90	0.15	0.402
		13	4.9	4.48	20.40	6.89	0.16	0.394
	Apr-12	1	0.3	11.8	20.41	7.10	0.68	0.423
		2	0.7	5.12	20.57	7.10	0.52	0.433
		3	1.0	1.64	20.75	7.08	0.40	0.436
		4	1.4	0.85	20.81	7.07	0.32	0.438
		5	1.7	0.75	20.80	7.05	0.28	0.434
		6	2.1	0.42	20.80	7.04	0.25	0.432
		7	2.4	0.13	20.83	7.02	0.23	0.431
		8	2.8	0.12	20.93	7.02	0.20	0.428
		9	3.1	0.10	20.97	7.02	0.18	0.427
		10	3.5	0.05	20.98	7.01	0.17	0.427
		11	3.8	0	21.01	7.00	0.16	0.426
		12	4.2	0	21.05	7.00	0.15	0.425

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		13	4.5	0	21.08	6.94	0.14	0.426
		14	4.9	0	21.06	6.99	0.13	0.428
	Oct-12	1	0.4	14.7	21.69	6.77	0.60	0.470
		2	0.8	4.75	21.83	6.86	0.28	0.477
		4	1.6	2.49	21.85	6.84	0.22	0.473
		5	2.0	1.22	21.92	6.92	0.19	0.475
		6.0	2.4	1.0	22.0	6.9	0.2	0.5
		7.5	3.0	1.1	21.8	7.0	0.2	0.5
		8.5	3.4	1.1	21.9	6.9	0.2	0.5
	Apr-13	1.25	0.5	67.90	20.59	6.10	1.00	0.180
		2.5	1.0	19.00	20.70	6.14	0.37	0.180
		5	2.0	6.09	20.72	6.19	0.26	0.194
		5.5	2.2	4.28	20.64	6.22	0.23	0.205
		6.5	2.6	3.03	20.74	6.22	0.19	0.209
		7	2.8	3.15	20.74	6.29	0.15	0.214
		7.75	3.1	1.87	20.71	6.24	0.14	0.215
		8.5	3.4	1.75	20.80	6.24	0.12	0.218
		10.8	4.4	1.69	20.76	6.25	0.12	0.221
	Oct-13	2	0.8	25.00	21.03	6.20	0.21	135.700
		4,5	1.8	2.88	21.18	6.25	0.41	144.000
		6	2.4	7.80	21.53	6.32	0.41	158.000
		8	3.2	5.41	21.42	6.34	0.39	163.000
		10	4.0	3.00	22.15	6.33	0.29	163.000
		12	4.9	2.89	22.11	6.31	0.28	159.000
	Apr-14	2	0.8	436.00	19.86	6.07	0.87	0.121
		3.5	1.4	391.00	19.83	6.19	0.63	0.156
		7	2.8	10.80	19.80	6.27	0.34	0.172
		9	3.6	8.79	19.82	6.28	0.30	0.172
		11	4.5	6.11	19.83	6.30	0.30	0.172
		13	5.3	4.23	19.82	6.30	0.30	0.173
MW-6	Oct-14	2	0.6	2.94	20.31	6.48	0.46	0.191
		4.5	1.3	1.76	20.27	6.50	0.36	0.205
		6.5	1.9	3.90	20.39	6.53	0.69	0.207
		8.5	2.4	2.69	20.35	6.51	0.75	0.207
		10.5	3.0	1.19	20.33	6.51	0.73	0.209
	Apr-15	2	0.6	90.30	20.13	5.98	0.93	0.107
		3	0.9	82.10	20.29	5.87	1.06	0.110
		4.5	1.3	61.40	20.94	6.01	0.87	0.140
		7	2.0	26.80	20.74	6.31	0.38	0.227
		10	2.9	10.91	20.94	6.91	0.29	0.241
		13	3.7	6.91	20.99	6.48	0.21	0.241
		17	4.9	4.31	21.10	6.49	0.25	0.245
		21	6.0	5.41	21.13	6.48	0.22	0.240
MW-7	Mar-96	3	1.25	19.1	55.4 F	7.68		0.074
		6	2.5	19.15	57.4 F	7.94		0.076
		9.5	4.0	19.15	57.1 F	8.00		0.087
	Nov-97	0	0.0	1409	13 C			0.060
		20	8.3	346	16 C			0.060
		25	10.4	185	15 C			0.060
		30	12.5	235	18 C			0.060
		35	14.6	146	15 C			0.060
		40	16.7	97	15 C			0.060
		45	18.8	49	16 C			0.060
		50	20.8	85	15 C			0.060
	Dec-98	1	0.4		65.4 F	5.62		4.180
		4	1.7		65.4 F	6.18		0.183
		6	2.5		64.1 F	6.31		0.246
		8	3.3		64.7 F	6.32		0.234
		10	4.2		63.8 F	6.25		0.131
	Apr-01	3	1.3	64	20.3 C	5.54	7.17	0.057
		6	2.5	53	20.1 C	5.18	7.44	0.063
		9	3.8	10	20.1 C	5.65	7.52	0.063
	May-02	2	0.8	280	19.9 C	5.38	4.07	0.067
		4	1.7	148	19.8 C	4.61	4.01	0.064
		6	2.5	251	19.7 C	4.69	4.00	0.064
	Sep-03[b]	2.4	1	95.2	20.0 C	5.20	6.68	0.067
		4.8	2	28.1	20.1 C	5.24	5.67	0.071
		12	5	>999	20.3 C	5.27	7.18	0.077
	May-04	0.5	0.34	192	25.17 C	5.64	6.37	0.095
		0.75	0.51	68	27.47 C	5.74	6.46	0.094
		1	0.68	47.6	26.27 C	5.75	6.50	0.094
		1.3	0.88	40.3	26.48 C	5.75	6.65	0.094
		1.5	1.02	36	26.5 C	5.74	6.44	0.094
		1.75	1.19	26.6	25.55 C	5.75	6.48	0.094
		2	1.36	18.9	27.11 C	5.70	6.35	0.094
		2.25	1.53	13.5	27.59 C	5.71	6.18	0.093
		2.4	1.63	13.3	28.62 C	5.71	6.30	0.094
		2.7	1.84	9.2	26.11 C	5.75	6.33	0.095
		3	2.04	7.6	26.81 C	5.69	6.32	0.095
MW-7R	May-04	1.5	0.89	59.9	24.71 C	7.37	6.51	0.095

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-7R		1.8	1.07	42	24.31 C	6.45	6.27	0.095
		1.9	1.13	29.4	24.27 C	6.10	6.27	0.094
		2.3	1.37	35.3	23.8 C	5.94	6.17	0.093
		2.5	1.49	20.6	27.01 C	5.86	6.21	0.093
		3	1.79	13	26.64 C	5.80	6.33	0.093
		4	2.38	9.5	26.65 C	5.79	6.35	0.093
		4.2	2.50	9.3	26.56 C	5.78	6.31	0.093
	Jul-06	11	6.55	59.9	24.71 C	7.37	6.51	0.095
		15	8.93	42	24.31 C	6.45	6.27	0.095
		20	11.90	29.4	24.27 C	6.10	6.27	0.094
		22	13.10	35.3	23.8 C	5.94	6.17	0.093
	Apr-07	4.5	3.41	829	19.57 C	5.92	7.06	0.105
		6	4.55	429	19.47 C	5.84	6.89	0.104
		7	5.30	286	19.56 C	5.82	6.86	0.105
		10	7.58	82.5	19.68 C	5.82	7.22	0.104
		14	10.61	11.9	19.57 C	5.81	6.82	0.105
		14.5	10.98	6.32	19.61 C	5.81	6.81	0.104
	Oct-07[a]	0.3	0.27	1100	18.79 C	5.91	4.79	0.115
		1.5	1.36	630	19.57 C	5.96	4.98	0.105
		2.4	2.18	258	19.44 C	5.96	4.78	0.104
		3.5	3.18	134	19.97 C	5.94	4.74	0.104
		4.4	4.00	108	19.91 C	5.95	4.75	0.104
		5.6	5.09	118	19.66 C	5.95	4.86	0.104
		6.7	6.09	58	19.76 C	5.92	5.92	0.104
		7.6	6.91	52	19.81 C	5.92	4.77	0.103
		8.8	8.00	53	19.82 C	5.90	4.95	0.103
		9.5	8.64	43.1	19.61 C	5.89	5.00	0.103
		10	9.09	40.6	19.63 C	5.89	4.93	0.103
		10.4	9.45	38.9	19.88 C	5.89	5.06	0.103
	Apr-08[a]	0.25	0.26	654	20.06 C	6.21	4.94	0.153
		0.75	0.78	702	20.25 C	6.01	4.91	0.129
		1.5	1.56	401	20.97 C	5.96	4.80	0.125
		2.5	2.60	262	21.02 C	5.94	4.37	0.123
		3.75	3.91	147	20.77 C	5.92	4.95	0.121
		5	5.21	114.2	20.31 C	5.84	4.57	0.120
		5.25	5.47	209	21.91 C	5.90	4.69	0.119
		5.35	5.57	135	21.23 C	5.96	5.12	0.119
	Oct-08[a]	0.1	0.11	475	18.7 C	6.08	3.53	0.138
		0.25	0.27	292	19.23 C	5.85	4.21	0.125
		0.5	0.54	151	19.4 C	5.74	5.30	0.114
		1	1.09	120	19.72 C	5.70	5.52	0.111
		1.2	1.30	86	19.73 C	5.78	5.59	0.110
		1.4	1.52	61.3	19.28 C	5.72	5.74	0.109
		1.5	1.63	56.3	19.01 C	5.69	5.75	0.109
		1.7	1.85	49.3	18.93 C	5.69	5.72	0.109
		2	2.17	46.5	18.36 C	5.70	5.60	0.108
		2.1	2.28	42.2	18.02 C	5.70	5.68	0.108
		2.2	2.39	48.7	18.3 C	5.64	5.74	0.108
		2.3	2.50	35.3	18.44 C	5.62	5.73	0.108
		2.5	2.72	30.2	18.37 C	5.62	5.70	0.108
		2.6	2.83	31.5	18.34 C	5.60	5.70	0.108
		2.7	2.93	32.7	18.27 C	5.60	5.75	0.108
		2.8	3.04	32.5	18.25 C	5.61	5.71	0.108
	Apr-09[a]	0.2	0.21	715	18.27 C	6.04	6.09	0.117
		0.5	0.52	484	18.4 C	5.97	5.90	0.114
		0.6	0.62	323	17.76 C	5.99	5.81	0.114
		0.7	0.72	467	17.5 C	5.97	5.94	0.114
		0.8	0.82	326	17.36 C	5.97	5.88	0.114
		0.9	0.93	263	17.75 C	5.99	5.77	0.113
		1	1.03	267	17.82 C	5.99	5.62	0.114
		1.1	1.13	276	17.91 C	5.99	5.24	0.114
		1.2	1.24	190	18.86 C	5.94	6.04	0.113
		1.6	1.65	94.4	18.94 C	5.95	6.05	0.113
		2	2.06	48.8	18.97 C	5.94	6.02	0.113
		2.6	2.68	25.3	19.04 C	5.94	6.02	0.111
		3.2	3.30	13.6	19.11 C	5.94	6.04	0.111
		3.7	3.81	11.9	19.15 C	5.94	6.03	0.111
		3.9	4.02	11.3	19.08 C	5.94	6.10	0.111
		4.1	4.23	9.6	19.12 C	5.93	6.10	0.111
	Oct-09[a]	0.05	0.04	176	19.27 C	6.06	4.43	0.140
		0.45	0.35	129	19.19 C	5.87	5.20	0.125
		1.2	0.94	63.7	19.04 C	5.75	5.73	0.118
		1.95	1.52	41.2	19.01 C	5.73	5.73	0.117
		2.9	2.27	30.1	19.02 C	5.71	5.69	0.117
		3.5	2.73	18.5	19.02 C	5.72	5.69	0.117
		4.1	3.20	24.5	19.13 C	5.75	5.58	0.117
		4.3	3.36	19.9	19.11 C	5.73	5.69	0.117
		5.1	3.98	12.3	19.04 C	5.71	5.65	0.117
		5.5	4.30	13.9	19.04 C	5.71	5.67	0.117

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		6	4.69	13.2	19.04 C	5.70	5.68	0.117
	Apr-10 [a]	0.25	0.14	above range	20.85	5.79	3.30	0.139
		1.25	0.69	698	21.07	5.51	5.33	0.116
		2.25	1.25	282	20.97	5.60	5.11	0.116
		3.5	1.94	137	21.05	5.59	5.41	0.116
		4.5	2.50	418	20.89	5.61	5.46	0.116
		5.5	3.06	100	20.95	5.65	5.45	0.116
		6.5	3.61	83.5	20.76	5.65	5.47	0.116
		7.25	4.03	34.1	20.68	5.46	5.50	0.116
		9	5.00	68.3	20.97	5.71	5.48	0.116
		11	6.11	21.1	20.49	5.59	5.50	0.115
		11.25	6.25	22.4	20.74	5.73	5.46	0.116
		12	6.67	16.9	21.02	5.75	5.45	0.116
		12.5	6.94	23	21.42	5.79	5.42	0.116
	Oct-10	0.5	0.3	229	20.01	5.95	6.40	0.129
		2.75	1.6	67.8	20.36	5.90	7.04	0.124
		4.5	2.6	66.1	20.59	5.90	6.99	0.123
		7.5	4.3	32.9	19.68	5.86	7.10	0.124
		8.5	4.9	28.1	19.62	5.86	7.19	0.123
		9.5	5.4	30.3	19.62	5.86	7.17	0.124
	Apr-11 [a]	0.5	0.3	602	19.52	5.76	6.47	0.128
		1.5	1.0	262	19.64	5.83	6.93	0.122
		4.5	3.0	193	19.64	5.83	6.93	0.121
		5.5	3.7	109	19.72	5.83	6.94	0.122
		7	4.7	106	19.8	5.80	6.96	0.122
		9	6.0	74.1	19.86	5.78	6.95	0.122
		10	6.7	78.4	19.86	5.75	6.98	0.122
		12	8.1	51.2	19.9	5.75	6.96	0.122
	Apr-11 [a]	13.5	9.1	88.7	19.63	5.72	7.03	0.122
		16	10.7	29.6	19.48	5.72	7.01	0.121
		19.5	13.1	19	19.47	5.70	6.99	0.123
		20	13.4	23.5	19.45	5.67	7.00	0.122
		20.5	13.8	18.7	19.5	5.66	6.94	0.122
		22	14.8	23.2	19.46	5.64	6.93	0.122
	Oct-11	0.5	0.4	894	19.61	5.88	5.48	0.122
		2	1.4	615	19.15	5.69	5.97	0.118
		4	2.8	340	19.16	5.83	6.00	0.117
		6	4.3	193	19.18	5.73	5.96	0.117
		8	5.7	130	19.25	5.76	5.95	0.117
	Apr-12	1.25	1.4	76.1	18.86	5.94	5.22	0.120
		2.5	2.7	51.4	18.93	5.93	5.20	0.118
		4	4.4	34.3	19.00	5.92	5.13	0.118
		5	5.5	18.4	18.95	5.91	5.09	0.118
		6	6.6	13.7	19.01	5.90	5.05	0.117
		7	7.7	9.21	19	5.89	5.02	0.117
	Oct-12	0.75	1.0	305	20.94	5.32	6.19	0.122
		1.5	2.1	51.2	20.74	5.57	6.32	0.116
		2	2.7	53.9	20.92	5.78	6.29	0.117
		2.5	3.4	52.6	21.18	5.89	6.26	0.116
		3.5	4.8	27.1	21.20	5.90	6.28	0.116
		4.75	6.5	25.4	21.14	5.89	6.31	0.116
		5.25	7.19	24.70	21.12	5.90	6.31	0.12
	Apr-13	1.00	1.37	60.30	19.56	5.53	5.43	0.122
		2.00	2.74	37.60	19.52	5.33	5.64	0.120
		3.00	4.11	9.33	19.59	5.34	5.72	0.119
		4.00	5.48	5.98	19.60	5.34	5.72	0.118
		5.00	6.85	4.73	19.83	5.36	5.72	0.119
MW-8	Mar-96	4	1.7	18.92	54.5 F	6.49		0.585
		8	3.3	18.88	57.1 F	6.25		0.619
		12	5.0	18.91	56.5 F	6.20		0.630
	Nov-97	12	5.0	> 1000	18 C	6.60		1.260
		25	10.4	650	17 C	6.60		1.260
		55	22.9	700	17 C	6.60		1.260
		75	31.3	635	17 C	6.60		1.260
		82	34.2	620	17 C	6.60		1.260
	Dec-98	1	0.4		61.5 F	6.48		2.060
		3	1.3		62.5 F	6.46		1.950
		5	2.1		61.9 F	6.30		2.160
		7	2.9		62.9 F	6.22		1.990
		10	4.2		62.6 F	6.25		2.060
		12	5.0		62.9 F	6.25		2.060
	Apr-01	3	1.3	40	20.4 C	6.21	0.09	0.601
		6	2.5	22	19.5 C	6.20	0.30	0.641
		9	3.8	19	19.2 C	6.19	-0.13	0.819
	May-02	1	0.4	999	19.8 C	5.79	2.34	1.100
	Sep-03 [b]	2	0.8	359	19 C	6.36	0.61	0.575
		4	1.7	405	19.6 C	6.27	0.36	0.611
		6	2.5	68.2	19.7 C	6.41	0.31	0.831
		8	3.3	23.9	19.8 C	6.46	2.13	1.100
		11	4.6	8.4	19.4 C	6.50	0.27	1.090

Groundwater Sampling Field Data
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Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-8	May-04	2	1.1	35.7	21.05 C	6.36	0.38	0.862
		3	1.7	17	21.72 C	6.24	0.69	1.080
		4	2.3	19.1	24.25 C	6.19	1.35	1.100
		5	2.8	32	27.94 C	6.13	2.81	1.090
		6	3.4	16	26.19 C	6.17	1.80	0.927
		7	4.0	35.3	22.44 C	6.21	1.52	0.955
		8	4.5	9.7	28.7 C	6.16	1.12	1.100
		8.5	4.8	8.7	25.49 C	6.17	1.25	1.110
		9	5.1	7.8	24.46 C	6.17	1.16	1.120
		9.5	5.4	9.9	23.36 C	6.17	1.03	1.110
		10	5.6	10.5	22.91 C	6.19	0.91	1.110
		10.5	5.9	8.4	22.18 C	6.22	0.80	1.120
		11	6.2	8	22.23 C	6.21	0.80	1.120
	May-05	2.4	1.0	106	19.44 C	6.35	0.47	0.372
		4.8	2.0	25.9	19.27 C	6.38	0.38	0.492
		5.2	2.2	22.8	19.23 C	6.39	0.35	0.514
	Jul-06	1.5	0.8	422	19.46 C	7.39	2.10	0.577
		3	1.7	367	19.65 C	7.20	1.64	0.663
		5	2.1	124	19.48 C	7.05	0.12	0.904
		6	2.6	100	19.49 C	7.03	0.11	0.918
		8	3.4	52.6	19.50 C	6.99	0.09	0.941
	Apr-07	1.5	0.9	320	20.42 C	6.92	0.49	1.733
		2	1.2	58.4	20.35 C	6.95	0.44	1.879
		4	2.4	38.7	20.38 C	6.99	0.83	2.044
		6.5	3.9	38.2	20.39 C	6.99	0.55	2.077
		8.5	5.1	25.5	20.38 C	6.99	0.53	2.066
	May-07			299	23.5 C	7.28	1.93	1.640
				372	22.5 C	7.24	0.55	1.620
				205	22.1 C	7.23	0.26	1.580
				195	21.7 C	7.23	0.17	1.560
	Oct-07[a]	0	0.0	168.8	17.51 C	6.36	2.75	1.237
		0.2	0.2	140.3	18.07 C	6.40	2.18	1.200
		0.3	0.3	105.2	18.32 C	6.37	1.64	1.176
		0.4	0.4	73.9	18.8 C	6.38	1.12	1.164
		0.6	0.6	57.1	19.03 C	6.37	0.78	1.174
		0.75	0.7	44.7	19.01 C	6.37	0.72	1.176
		0.85	0.8	25.5	19.54 C	6.36	0.81	1.174
		1	0.9	18.8	19.76 C	6.37	0.78	1.173
		1.2	1.1	15.5	20.27 C	6.38	0.73	1.173
		1.3	1.2	14.3	20.73 C	6.38	0.73	1.173
		1.4	1.3	12.4	21.26 C	6.38	0.71	1.170
		1.4	1.3	11.3	21.98 C	6.38	0.68	1.171
		1.5	1.4	10.8	22.15 C	6.38	0.65	1.174
		1.5	1.4	9.13	22.47 C	6.38	0.65	1.176
	Apr-08[a]	0.15	0.1	268	20.59 C	6.55	1.12	1.204
		0.3	0.3	187	20.41 C	6.36	1.22	1.074
		0.5	0.4	104	19.91 C	6.28	0.67	0.940
		0.9	0.8	79.1	19.83 C	6.25	0.54	0.942
		1.25	1.0	92.4	19.75 C	6.33	0.43	1.003
		1.5	1.3	135	19.69 C	6.36	0.42	1.041
		1.9	1.6	163	19.8 C	6.39	0.43	1.075
		2.3	1.9	165	19.7 C	6.43	0.46	1.120
		2.6	2.2	152	19.62 C	6.46	0.47	1.170
		3	2.5	142	19.65 C	6.45	0.48	1.174
		3.4	2.8	132	19.64 C	6.47	0.44	1.182
		3.5	2.9	141	19.6 C	6.47	0.41	1.187
		3.6	3.0	145	19.51 C	6.47	0.40	1.189
	Oct-08	0.15	0.1	143	18.16 C	5.17	1.37	0.892
		0.2	0.2	61.2	18.02 C	6.89	1.05	0.872
		0.22	0.2	52.9	18.34 C	7.41	1.02	0.859
		0.25	0.2	48.7	18.37 C	7.40	0.99	0.861
		0.3	0.3	36.8	18.58 C	7.02	0.91	0.904
		0.35	0.3	28.2	18.64 C	6.92	0.91	0.943
		0.4	0.4	23.7	18.76 C	6.88	0.90	0.970
		0.45	0.4	23.4	18.98 C	6.74	0.80	1.026
		0.5	0.5	23.8	19.06 C	6.73	0.78	1.036
		0.55	0.5	20.5	19.02 C	6.57	0.79	1.055
		0.6	0.5	19.2	19.02 C	6.46	0.85	1.065
		0.65	0.6	17.3	19.03 C	6.41	0.85	1.072
		0.7	0.6	16.3	19.03 C	6.35	0.89	1.083
		0.75	0.7	12.1	19.05 C	6.34	0.91	1.087
		0.8	0.7	11.8	19.18 C	6.30	0.96	1.098
		0.85	0.8	10.8	19.36 C	6.30	1.02	1.108
		0.9	0.8	9.43	19.41 C	6.30	1.08	1.118
	Apr-09[a]	0.05	0.1	761	21.39 C	7.19	9.00	0.967
		0.15	0.2	685	21.62 C	7.18	8.30	0.967
		0.25	0.3	575	21.18 C	7.07	7.68	0.982
		0.35	0.4	479	20.88 C	6.77	6.25	1.015
	Apr-09[a]	0.5	0.5	286	20.52 C	6.69	5.10	1.044
		0.7	0.7	195	20.18 C	6.61	4.01	1.072

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		0.8	0.9	100.7	20.15 C	6.58	2.56	1.101
		1.05	1.1	75.1	20.07 C	6.51	2.05	1.121
		1.2	1.3	45.1	20.01 C	6.51	1.60	1.129
		1.25	1.3	24.1	19.92 C	6.49	1.41	1.133
		1.45	1.5	16.3	19.88 C	6.48	0.88	1.133
		1.6	1.7	11.6	19.52 C	6.49	0.79	1.133
		1.65	1.8	11.4	19.76 C	6.49	0.71	1.136
		1.7	1.8	11.1	20.10 C	6.49	0.59	1.139
		1.85	2.0	7.56	20.06 C	6.49	0.54	1.140
	Oct-09[a]	0.0	0.0	287	18.67 C	6.28	1.67	0.819
		0.3	0.2	44.1	18.96 C	6.40	1.15	0.797
		0.55	0.4	27.5	19.04 C	6.40	1.00	0.834
		0.85	0.6	18.5	19.04 C	6.41	0.88	0.880
		1.1	0.8	17.7	19.06 C	6.41	0.78	0.906
		1.35	1.0	12.5	19.09 C	6.42	1.09	0.930
		1.5	1.1	12.6	19.12 C	6.42	0.78	0.940
		1.85	1.3	14.3	19.13 C	6.42	0.64	0.947
		1.95	1.4	12.5	19.34 C	6.43	0.69	0.951
		2.05	1.5	13.3	19.4 C	6.43	0.75	0.958
		2.3	1.6	13.7	19.32 C	6.43	0.64	0.969
		2.5	1.8	10.8	19.3 C	6.42	0.58	0.970
		2.6	1.9	11.6	19.3 C	6.42	0.58	0.972
		2.7	1.9	9.8	19.28 C	6.42	0.56	0.974
	Apr-10[a]	0.2	0.1	538	19.28	6.25	1.31	0.319
		0.5	0.4	434	18.82	6.22	0.94	0.358
		1	0.7	243	18.63	6.30	0.65	0.462
		1.5	1.1	170	18.65	6.34	0.58	0.509
		2.25	1.6	120	18.66	6.38	0.52	0.555
		3	2.1	72.5	18.6	6.41	0.49	0.592
		3.7	2.6	69.1	18.57	6.42	0.46	0.622
		4.4	3.1	50.2	18.57	6.44	0.43	0.647
		5.1	3.6	37.4	18.83	6.45	0.41	0.664
		5.8	4.1	33.5	18.84	6.47	0.39	0.680
		6.5	4.6	29.5	18.83	6.49	0.38	0.690
		7.2	5.1	40.5	18.78	6.50	0.36	0.699
		7.9	5.6	33.3	18.69	6.50	0.36	0.706
		8.7	6.2	23.5	18.65	6.49	0.34	0.711
		9.4	6.7	24.3	18.63	6.48	0.32	0.717
		9.75	7.0	22.8	18.66	6.49	0.32	0.719
		10.1	7.2	22.2	18.79	6.49	0.31	0.722
		10.45	7.5	20.5	18.8	6.49	0.31	0.726
	Oct-10	0	0.0	285	20.37	6.72	2.36	0.815
		2.25	0.9	27.0	19.60	6.65	0.33	0.924
		5.65	2.4	15.0	19.41	6.64	0.25	0.952
		6.45	2.7	12.0	19.37	6.64	0.30	0.968
		6.85	2.9	11.8	19.38	6.63	0.29	0.970
		7.25	3.0	9.8	19.40	6.64	0.30	0.974
	Apr-11[a]	0.25	0.2	592	20.60	6.72	5.27	1.039
		0.6	0.4	394	19.06	6.44	4.48	1.030
		1	0.6	221	18.88	6.59	4.18	1.028
		1.45	0.9	105	18.77	6.68	4.10	1.043
		2	1.3	62.5	18.67	6.70	4.09	1.036
		2.6	1.7	45.7	18.57	6.72	4.02	1.021
		3.35	2.2	34.8	18.70	6.71	3.95	1.023
		4.15	2.7	29.5	18.60	6.72	3.94	1.029
		4.8	3.1	27.4	18.93	6.76	3.91	1.036
		5.4	3.5	32.7	19.19	6.72	3.95	1.042
		6	3.9	34.2	18.94	6.72	3.94	1.028
		6.3	4.1	27.4	18.89	6.73	3.90	1.026
		6.6	4.3	31.8	18.86	6.72	3.94	1.031
		6.9	4.5	28.2	18.91	6.73	3.91	1.033
	Oct-11	0.25	0.2	436	19.24	6.56	3.61	0.937
		0.5	0.5	437	19.22	6.53	3.03	0.919
		0.75	0.7	415	19.18	6.52	3.37	0.903
		1	0.9	192	19.17	6.50	3.19	0.887
		1.25	1.1	129	19.17	6.51	3.63	0.885
		1.5	1.4	62.2	19.18	6.52	3.60	0.886
		1.75	1.6	48.3	19.19	6.52	3.50	0.885
		2	1.8	36.3	19.20	6.52	3.57	0.885
		2.25	2.0	26.4	19.20	6.53	3.84	0.884
		2.5	2.3	22.5	19.20	6.54	3.86	0.883
		2.75	2.5	17.2	19.18	6.54	3.97	0.883
		3	2.7	14.1	19.19	6.54	4.15	0.884
		3.25	2.9	12.6	19.17	6.54	4.26	0.884
		3.5	3.2	8.75	19.18	6.54	4.86	0.884
	Nov-11	0.5	0.5	683	18.74	6.18	3.20	0.812
		0.75	0.8	654	18.53	6.18	1.87	0.809
		1	1.0	609	18.67	6.31	1.87	0.812
		1.25	1.3	387	18.78	6.38	1.79	0.815
		1.5	1.5	271	18.77	6.37	1.71	0.819

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-8		1.75	1.8	219	18.80	6.39	1.60	0.822
		2	2.0	177	18.75	6.42	1.53	0.825
	Nov-11	2.25	2.3	128	18.76	6.43	1.49	0.827
		2.5	2.6	120	18.71	6.45	1.47	0.832
		2.75	2.8	67.0	18.70	6.45	1.48	0.834
		3	3.1	42.2	18.74	6.45	1.49	0.837
		3.25	3.3	35.5	18.78	6.46	1.51	0.841
	Apr-12	0.05	0.1	34.5	21.08	6.07	0.70	1.022
		0.2	0.2	27	20.61	6.14	0.50	1.027
		0.4	0.5	21.8	20.82	6.35	0.47	1.029
		0.5	0.6	20.4	20.59	6.40	0.45	1.030
		0.6	0.7	20.1	20.05	6.33	0.37	1.029
		0.75	0.9	14.6	19.94	6.29	0.33	1.029
		1	1.1	14.4	19.98	6.38	0.29	1.030
		1.25	1.4	15.5	19.92	6.41	0.27	1.031
		1.4	1.6	13.25	19.92	6.43	0.27	1.032
		1.6	1.8	10.66	20.01	6.46	0.24	1.033
		1.75	2.0	9.45	19.99	6.47	0.22	1.035
		2	2.3	9.3	20.12	6.50	0.22	1.036
		2.2	2.5	9.82	20.04	6.48	0.20	1.036
		2.4	2.8	8.3	20.11	6.50	0.20	1.037
		2.5	2.9	7.61	20.14	6.50	0.19	1.037
		2.75	3.2	6.5	20.09	6.50	0.19	1.037
		0.1	0.2	>1000	22.96	6.47	0.48	1.103
	Oct-12	0.19	0.4	>1000	23.99	6.71	0.15	1.120
	Apr-13	0	0.0	70.0	20.80	6.38	3.22	1.09
		0.1	0.1	84.3	19.73	5.98	0.68	1.10
		0.5	0.6	51.5	19.02	6.07	0.39	1.07
		1.2	1.4	15.8	18.93	6.17	0.32	1.07
		1.5	1.7	13.4	18.92	6.22	0.28	1.07
		1.8	2.1	13.9	18.87	6.24	0.26	1.06
		2.4	2.8	9.13	18.89	6.27	0.24	1.06
	Oct-13	0	0.0	48.70	19.33	6.58	5.58	0.726
		0.5	0.6	11.70	18.81	6.52	0.59	0.729
		1	1.1	3.08	18.71	6.50	0.52	0.718
		1.5	1.7	1.95	18.69	6.52	0.41	0.703
		2	2.3	0.31	18.70	6.50	0.34	0.699
		2.25	2.6	0.09	18.80	6.52	0.34	0.702
		2.5	2.9	0.09	18.82	6.50	0.32	0.706
		2.75	3.2	0.26	18.84	6.51	0.31	0.71
	Apr-14	0.6	0.7	236	16.82	6.56	0.74	0.755
		1.25	1.4	62.3	16.80	6.52	0.58	0.707
		1.75	2.0	36.3	16.84	6.51	0.48	0.708
		2.3	2.6	23.7	17.04	6.52	0.42	0.735
		3	3.4	16.3	17.08	6.53	0.38	0.763
		3.5	4.0	12.3	16.79	6.53	0.36	0.782
		4	4.6	9.12	16.90	6.55	0.33	0.795
		4.5	5.2	7.13	16.85	6.54	0.32	0.801
		5	5.7	5.23	16.97	6.54	0.30	0.804
		5.5	6.3	5.3	16.88	6.54	0.29	0.810
		6	6.9	4.13	16.93	6.54	0.28	0.813
		6.5	7.5	3.20	17.48	6.54	0.26	0.816
	Oct-14	0.2	0.1	181.00	19.07	6.49	0.91	0.907
		1.2	0.6	25.80	18.93	6.54	1.32	0.878
		2.4	1.2	8.83	18.78	6.55	1.09	0.856
		4.1	2.0	6.05	18.77	6.57	1.05	0.866
		5.2	2.6	2.62	18.79	6.58	0.97	0.866
		5.9	2.9	2.06	18.78	6.59	0.96	0.866
		6.8	3.4	0.63	18.79	6.59	0.91	0.867
		7.5	3.7	1.18	18.80	6.60	0.91	0.867
	Apr-15	0.5	0.2	22.90	20.60	6.43	0.50	0.792
		0.8	0.4	15.80	20.28	6.46	0.33	0.759
		1.25	0.6	12.01	20.23	6.47	0.26	0.772
		1.75	0.9	8.10	20.64	6.50	0.22	0.779
		2	1.0	6.52	20.55	6.50	0.20	0.787
		2.5	1.2	5.45	20.25	6.51	0.17	0.794
		2.8	1.4	4.67	20.59	6.52	0.16	0.799
		3.25	1.6	3.69	20.64	6.51	0.15	0.797
		3.75	1.9	4.60	20.57	6.52	0.15	0.801
		4	2.0	2.22	20.75	6.52	0.14	0.800
		4.5	2.2	1.95	20.65	6.53	0.13	0.802
		4.8	2.4	2.40	20.72	6.53	0.13	0.802
		5.25	2.6	3.03	20.66	6.52	0.13	0.800
		5.5	2.7	1.72	20.88	6.52	0.12	0.800
MW-9a	Dec-01	2	1.3	702	19.2 C	6.76	1.67	0.743
		7	4.7	535	20.1 C	6.97	2.76	0.928
		10	6.7	219	20.2 C	6.97	2.63	0.969
		12	8.0	134	20.6 C	6.99	2.97	0.987
	May-02	2	1.3	999	20.8 C	5.94	0.30	0.284
		4	2.7	639	21.2 C	5.00	0.12	0.476

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-9a		6	4.0	279	21.3 C	4.94	0.15	0.510
		2	1.3	> 1000	20.5 C	4.93	0.79	0.199
		4	2.7	> 1000	19.9 C	4.83	0.47	0.191
		6	4.0	> 1000	20.1 C	5.07	0.81	0.273
	Sep-03[b]	1.5	1.0	203	21.1 C	6.88	0.49	0.705
		3	2.0	90.1	21.1 C	6.64	0.33	0.625
		4.5	3.0	78	21.4 C	6.83	0.33	0.773
		5.5	3.7	93.2	21.4 C	6.90	0.31	0.737
		7.5	5.0	83.9	20.8 C	6.78	0.27	0.579
		8.5	5.7	93.6	20.8 C	6.80	0.27	0.596
	May-04	1	0.9	217	22.37 C	6.33	2.04	0.331
		1.5	1.4	27.5	26.01 C	6.28	0.82	0.379
		2	1.8	20.2	25.89 C	6.36	0.64	0.411
		2.5	2.3	18.8	27.08 C	6.33	0.51	0.422
		3	2.8	19.2	27.47 C	6.32	0.48	0.421
		3.5	3.2	12.8	26.44 C	6.37	0.60	0.524
		4	3.7	11.7	26.47 C	6.43	0.51	0.557
		4.5	4.1	12.5	27.52 C	6.48	0.35	0.571
		5	4.6	13.6	29.15 C	6.50	0.33	0.575
		5.5	5.0	24.2	26.28 C	6.49	0.29	0.570
		6	5.5	37	22.13 C	6.43	0.55	0.616
		7	6.4	20.9	23.94 C	6.52	0.35	0.664
		7.5	6.9	9.5	24.87 C	6.50	0.32	0.654
	Jul-06	3	2.8	8.6	20.87 C	6.42	1.78	0.278
		5	4.6	3.1	20.92 C	6.64	2.55	0.391
		7	6.4	5.8	20.94 C	6.75	2.58	0.450
		8.5	7.8	5.7	20.92 C	6.81	2.33	0.476
	Apr-07	0.1	0.1	47.5	20.30 C	6.67	1.95	0.376
		0.9	0.8	21.9	19.86 C	6.62	1.02	0.531
		2.8	2.5	8.3	19.83 C	6.63	1.02	0.569
		3.5	3.1	4.2	19.83 C	6.74	0.98	0.571
	Oct-07	0.1	0.1	96	19.43 C	6.48	1.12	0.860
		0.25	0.1	39.6	19.98 C	6.44	1.07	0.874
		0.4	0.2	28.6	19.89 C	6.44	0.80	0.872
		0.6	0.4	16.7	20.3 C	6.45	0.60	0.883
		0.75	0.4	14	20.37 C	6.45	0.46	0.884
		0.9	0.5	11.5	20.44 C	6.45	0.39	0.881
		1.1	0.7	11.4	20.52 C	6.44	0.27	0.879
		1.25	0.7	10.4	20.57 C	6.44	0.24	0.877
		1.4	0.8	7.48	20.54 C	6.44	0.23	0.873
	Apr-08	0.1	0.1	57.6	17.58 C	6.67	0.81	0.699
		0.25	0.2	52.9	17.83 C	6.73	0.59	0.727
		0.35	0.2	38.2	18.18 C	6.74	0.48	0.728
		0.55	0.3	30.5	18.44 C	6.70	0.65	0.669
		0.75	0.5	21.7	18.54 C	6.65	0.70	0.590
		1	0.6	17.2	18.51 C	6.51	0.59	0.461
		1.25	0.8	14.7	18.51 C	6.47	0.50	0.433
		1.4	0.9	13.1	18.6 C	6.48	0.45	0.442
		1.6	1.0	10.25	18.56 C	6.50	0.42	0.457
		1.9	1.2	7.2	18.56 C	6.52	0.40	0.473
	Oct-08	0.1	0.1	526	20.71 C	7.98	1.15	0.480
		0.75	0.7	154	21.34 C	7.75	1.11	0.537
		1.25	1.1	56.1	21.33 C	7.82	0.88	0.644
		1.75	1.5	28.3	21.48 C	7.87	0.73	0.706
		2.25	2.0	12.2	21.51 C	7.89	0.61	0.747
		2.75	2.4	7.35	21.5 C	7.89	0.53	0.766
		3.5	3.0	5.77	21.53 C	7.88	0.48	0.776
		4.25	3.7	5.82	21.53 C	7.88	0.45	0.782
	Apr-09	0.25	0.2	374	19.17 C	5.83	3.98	0.068
		0.5	0.3	53.4	19.56 C	5.84	2.90	0.078
		1	0.6	28.4	19.57 C	5.99	2.43	0.116
		2	1.2	13.3	19.83 C	6.13	1.97	0.167
		3	1.9	9.46	19.85 C	6.28	1.49	0.232
		3.5	2.2	6.95	19.64 C	6.34	1.27	0.276
		4	2.5	9.26	19.78 C	6.44	1.00	0.335
		4.5	2.8	7.82	19.84 C	6.44	0.95	0.340
		5	3.1	5.2	19.83 C	6.44	0.90	0.342
		6	3.7	6.83	19.89 C	6.43	0.85	0.349
		6.75	4.2	5.52	19.97 C	6.41	0.85	0.337
	Oct-09	0.15	0.1	36.3	22.63 C	6.40	1.36	0.279
		0.3	0.2	18.8	22.06 C	6.10	1.22	0.171
		0.5	0.3	14.4	22.08 C	5.84	1.36	0.109
		0.8	0.5	11.9	22.14 C	5.62	1.39	0.083
		1.2	0.8	8.34	22.19 C	5.62	1.22	0.093
		1.3	0.8	7.52	22.19 C	5.66	1.15	0.098
		1.5	0.9	6.88	22.15 C	5.68	1.06	0.105
	Apr-15	0.25	0.2	49.1	20.22	4.88	4.40	0.114
		1.25	0.8	25	20.11	5.08	1.29	0.139
		1.75	1.1	15.2	20.02	5.20	1.02	0.138
		2.4	1.5	11.4	20.07	5.36	0.67	0.151

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		3	1.9	7.77	20.09	5.60	0.50	0.178
		3.5	2.2	5.51	19.94	5.70	0.40	0.200
		4	2.5	4.08	20.07	5.82	0.35	0.221
		4.5	2.8	3.13	20.15	5.90	0.31	0.240
		5	3.1	3.47	20.1	5.98	0.28	0.256
		5.5	3.4	2.98	20.12	6.04	0.24	0.275
		6	3.8	2.13	20.17	6.03	0.21	0.285
		6.5	4.1	3.2	20.14	6.09	0.20	0.300
		7	4.4	3.49	20.18	6.11	0.22	0.312
		7.5	4.7	2.19	20.11	6.11	0.20	0.320
MW-9b	Dec-01	20	3.3	8	20.3 C	10.76	1.01	0.960
		40	6.7	3	19.7 C	9.61	1.02	0.790
		60	10.0	3	19.8 C	9.13	1.03	0.792
	May-02	20	3.3	264	20.8 C	8.69	0.91	1.080
		40	6.7	44	20.6 C	6.80	0.06	1.080
		60	10.0	32	20.6 C	6.79	0.05	1.070
		6	1.0	152	20.7 C	6.07	0.39	1.150
		12	2.0	128	20.3 C	5.98	0.23	1.140
		18	3.0	54	20.3 C	6.02	0.36	1.130
	Sep-03[b]	6	1.0	247	23.4 C	7.24	0.37	1.490
		12 [c]	2.0	576	22.9 C	7.24	0.35	1.440
		18 [c]	3.0	763	21.9 C	7.34	0.32	1.370
		24 [c]	4.0	> 999	21.9 C	7.36	0.32	1.360
		30 [c]	5.0	>999	21.9 C	7.32	0.34	1.370
	May-04	1	0.3	17.1	21.58 C	6.76	0.48	1.500
		1.5	0.4	10.9	22.27 C	6.76	0.41	1.500
		2	0.5	15.8	21.57 C	6.78	0.46	1.510
		2.5	0.6	7.8	23.65 C	6.77	0.37	1.490
		3	0.8	7.3	23.75 C	6.79	0.43	1.510
		3.5	0.9	8.1	23.53 C	6.79	0.41	1.520
		4	1.0	6.3	23.73 C	6.79	0.41	1.520
	Jul-06	4	1.0	6.2	22.04 C	6.76	0.01	0.886
		7	1.8	18.5	22.18 C	6.76	1.08	0.911
		8	2.0	10	24.26 C	6.78	0.69	0.876
		8.5	2.2	8	24.90 C	6.77	0.40	0.887
	Apr-07	1	0.2	25.2	20.26 C	11.20	1.87	0.680
		2.5	0.5	30.7	20.34 C	11.08	3.88	0.528
		5	0.9	450	21.13 C	8.56	2.16	0.626
		7.5	1.4	358	20.71 C	7.26	0.79	1.023
		9	1.7	190	20.8 C	7.16	5.21	1.022
		10	1.8	80	21.14 C	7.13	5.69	1.025
		12	2.2	77	21.97 C	7.13	5.42	1.034
		14	2.6	177	21.77 C	7.21	6.41	1.033
		15	2.8	63.2	21.71 C	7.27	5.81	1.184
		16	2.9	27.9	20.39 C	7.20	5.42	1.179
		17	3.1	12.4	20.32 C	7.15	5.27	1.181
		18	3.3	10.3	20.31 C	7.16	5.16	1.132
		18.5	3.4	11.3	20.16 C	7.19	4.81	1.183
		20	3.7	9.6	20.19 C	7.18	4.84	1.185
	Oct-07[a,d]	1	0.2	37.6	20.19 C	7.23	0.42	0.789
		2.1	0.3	26.7	20.15 C	7.23	0.48	0.792
		3.7	0.6	68	20.55 C	7.23	0.16	0.788
		5	0.8	50.06	21.19 C	7.24	0.10	0.782
		6.1	1.0	26.3	21.1 C	7.24	0.10	0.785
		7.2	1.2	24.4	21.28 C	7.28	0.09	0.786
		8	1.3	54.8	21.61 C	7.36	0.14	0.778
		9.3	1.5	80.1	21.69 C	7.35	0.13	0.775
MW-9b	Oct-07[a,d]	10.3	1.7	81.5	22.11 C	7.37	0.11	0.774
		11.6	1.9	555	21.46 C	7.30	0.66	0.777
		12.6	2.1	352	21.3 C	7.31	1.95	0.767
		13.1	2.2	64	22.24 C	7.34	3.05	0.762
		13.5	2.2	94	23.23 C	7.34	4.57	0.780
		14	2.3	97	25.29 C	7.34	4.31	0.787
		14.5	2.4	130	24.48 C	7.33	4.85	0.787
		15.1	2.5	130	29.73 C	7.39	4.12	0.811
		16.4	2.7	105.5	20.34 C	7.39	2.95	0.799
		17.6	2.9	37.5	20.25 C	7.27	1.67	0.795
		18	3.0	35.2	20.09 C	7.26	1.73	0.794
		18.5	3.0	36	20.42 C	7.25	1.78	0.793
	Apr-08[a]	0.15	0.0	267	17.54 C	7.05	0.25	0.831
		0.3	0.1	175	16.8 C	7.14	0.32	0.830
		0.45	0.1	191	15.87 C	7.14	0.56	0.825
		0.6	0.1	202	16.81 C	7.19	0.41	0.817
		0.67	0.1	278	16.99 C	7.20	0.52	0.810
		0.8	0.1	124	16.23 C	7.19	0.68	0.797
		0.9	0.2	119	15.84 C	7.17	0.68	0.791
		1.1	0.2	63.3	16.14 C	7.19	0.66	0.789
		1.3	0.2	66.2	16.67 C	7.19	0.69	0.786
		1.5	0.3	73.5	16.76 C	7.18	0.59	0.787

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.7	0.3	67.5	17 C	7.16	0.66	0.784
		1.9	0.3	38.6	17.53 C	7.20	0.51	0.789
		2.1	0.4	37.2	17.85 C	7.23	0.60	0.795
		2.3	0.4	72.9	17.97 C	7.21	0.36	0.799
		2.5	0.4	28.1	18.51 C	7.22	0.32	0.798
		2.7	0.5	22.6	19.51 C	7.23	0.29	0.804
		2.9	0.5	21.7	20.14 C	7.25	0.24	0.809
		3.1	0.5	20	20.45 C	7.26	0.23	0.811
		3.3	0.6	29.8	20.5 C	7.25	0.36	0.814
		3.5	0.6	21.9	20.65 C	7.24	0.24	0.813
		3.7	0.6	32	20.94 C	7.26	0.19	0.814
		3.9	0.7	26.7	20.3 C	7.27	0.14	0.813
		4.1	0.7	27.5	21.01 C	7.27	0.12	0.814
		4.3	0.7	25.8	21.04 C	7.27	0.10	0.815
		4.5	0.8	28.9	21.14 C	7.31	0.21	0.817
		4.7	0.8	22.6	21.17 C	7.23	0.12	0.817
		4.9	0.8	23.4	21.38 C	7.24	0.07	0.818
		5.1	0.9	19.1	22.17 C	7.25	0.06	0.818
		5.3	0.9	22.3	21.74 C	7.24	0.04	0.818
		5.5	0.9	18.5	22.01 C	7.25	0.04	0.820
		5.7	1.0	16.3	22.08 C	7.23	0.09	0.822
		6.1	1.0	18.6	22.91 C	7.27	0.04	0.827
		6.3	1.1	16.6	22.71 C	7.23	0.04	0.822
		6.5	1.1	17.2	22.36 C	7.23	0.04	0.823
		7.25	1.2	16.5	22.09 C	7.26	0.24	0.828
		7.5	1.3	17	22.64 C	7.25	0.10	0.828
		8.5	1.4	15.8	22.78 C	7.25	0.06	0.830
		9.5	1.6	15.1	22.82 C	7.26	0.05	0.831
		10	1.7	16.5	22.63 C	7.25	0.05	0.826
		10.5	1.8	17.4	22.67 C	7.25	0.05	0.825
		11	1.9	14.8	22.39 C	7.25	0.04	0.823
	Oct-08	0.25	0.0	63.2	19.52 C	8.62	1.33	0.809
		0.5	0.1	33.9	19.88 C	8.65	1.02	0.806
		1	0.2	13.9	20.04 C	8.65	0.87	0.809
		2	0.3	8.44	19.96 C	8.62	0.78	0.803
		3	0.5	8.33	20.02 C	8.52	0.70	0.808
	Apr-09	0.1	0.0	126	19.28 C	7.04	0.94	0.830
		0.2	0.0	48.2	19.05 C	7.01	0.77	0.834
		0.3	0.0	24.6	19.34 C	7.01	0.71	0.836
		0.4	0.1	20.8	19.18 C	7.01	0.63	0.835
		0.6	0.1	20.3	19.34 C	7.01	0.57	0.835
		0.8	0.1	19.9	19.02 C	7.01	0.57	0.834
		1	0.2	13.5	19.46 C	7.00	0.51	0.833
		1.2	0.2	9.09	19.63 C	7.02	0.41	0.832
		1.4	0.2	7.14	19.51 C	7.03	0.39	0.830
		1.6	0.2	7.72	19.17 C	7.03	0.38	0.828
		1.8	0.3	5.03	19.75 C	7.01	0.39	0.832
	Oct-09	0.2	0.0	19.36	21.31 C	8.93	0.53	0.811
		0.25	0.0	17.76	21.19 C	8.84	0.47	0.812
		0.35	0.1	13.37	21.38 C	8.74	0.39	0.815
		0.65	0.1	22.6	21.17 C	8.68	0.35	0.818
		1.1	0.2	16.74	21.14 C	8.54	0.29	0.820
		1.35	0.2	11.97	21.15 C	8.53	0.30	0.819
		1.5	0.2	9.71	21.32 C	8.50	0.29	0.819
		1.8	0.3	7.89	21.22 C	8.60	0.25	0.821
	Apr-15	2.5	0.4	36	20.05	8.92	2.78	0.525
		5	0.8	22.1	20.18	7.48	0.40	0.904
		7	1.1	14.2	20.32	7.26	0.15	0.968
		9	1.4	6.89	20.4	7.21	0.15	0.973
		11	1.7	11.5	20.45	7.20	0.12	0.971
		14	2.1	8.26	20.44	7.19	0.11	0.963
		17	2.6	5.41	20.49	7.17	0.09	0.957
		20	3.0	4.32	20.39	7.17	0.05	0.957
		22	3.3	2.85	20.41	7.16	0.08	0.957
MW-10	Dec-01	2	1.2	999	19.5 C	6.10	1.56	0.471
		6	3.7	336	20.4 C	6.30	1.33	0.483
		10	6.1	72	19.8 C	6.31	1.54	0.497
	May-02	2	1.2	342	21.6 C	6.40	1.90	0.266
		4	2.4	104	20.8 C	4.66	0.53	0.260
		6	3.7	52	20.6 C	4.61	0.49	0.260
	Sep-03	4	2.4	217	22.1 C	5.81	6.97	0.219
		4.5	2.7	68.4	23.5 C	5.76	6.24	0.215
		5	3.0	9.4	22.8 C	5.83	0.76	0.212
	May-04	1	0.6	280	23.38 C	5.78	8.88	0.000
		2	1.3	102	22.46 C	6.07	0.66	0.358
		3	1.9	47.1	23.02 C	6.06	0.56	0.357
		3.5	2.2	26.2	23.21 C	6.05	0.51	0.357
		5	3.2	16.5	23.73 C	6.03	0.43	0.363
		6	3.8	6.6	23.76 C	6.03	0.41	0.367
	Jul-06	2	1.3	230	22.72 C	6.46	8.63	0.331

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		4	2.6	14.2	22.69 C	6.33	8.00	0.340
		5	3.2	8.9	22.68 C	6.35	9.63	0.348
	Apr-07	0.2	0.1	32.5	21.91 C	6.42	1.25	0.438
		1.2	0.8	19.5	22.23 C	6.32	0.80	0.438
		2	1.3	11.7	21.30 C	6.07	0.48	0.450
		3.2	2.0	6.2	21.22 C	5.95	0.69	0.456
		4	2.5	2.9	21.23 C	5.85	0.74	0.461
		5	3.1	1.9	21.20 C	5.82	0.76	0.455
	Oct-07	0	0.0	175	21.21 C	5.79	8.47	0.585
		0.1	0.1	161	21.8 C	5.72	6.70	0.583
		0.2	0.1	76.6	22 C	5.46	2.67	0.581
		0.4	0.3	46.7	21.67 C	5.39	1.41	0.587
		0.6	0.4	41.8	22 C	5.37	0.92	0.596
		0.7	0.4	29.7	22.28 C	5.41	0.93	0.598
		0.8	0.5	16	22.23 C	5.37	0.71	0.607
		1	0.6	12.3	22.12 C	5.37	0.69	0.608
		1.25	0.8	11.3	21.68 C	5.36	0.63	0.609
		1.4	0.9	12.3	21.42 C	5.32	0.52	0.606
		1.6	1.0	12.4	21.5 C	5.35	0.54	0.604
		1.8	1.1	7.3	21.28 C	5.36	0.48	0.605
	Apr-08	0.2	0.1	50.3	21.75 C	6.00	0.84	0.433
		0.3	0.2	32.7	21.64 C	5.95	0.80	0.434
		0.5	0.3	25.4	21.66 C	5.95	1.46	0.435
		0.7	0.5	21.5	21.61 C	5.95	1.36	0.436
		1	0.7	13.7	21.55 C	5.90	1.00	0.439
		1.2	0.8	7.92	21.53 C	5.84	0.82	0.446
	Oct-08	0.1	0.1	302	19.48 C	5.84	1.25	0.368
		0.15	0.1	156	19.48 C	5.83	1.11	0.365
		0.25	0.2	65.9	19.56 C	5.82	0.92	0.359
		0.3	0.2	37.1	19.55 C	5.77	0.78	0.354
		0.35	0.3	36.4	19.51 C	5.74	0.76	0.354
		0.55	0.4	24.7	19.45 C	5.69	0.66	0.349
		0.65	0.5	18.2	19.65 C	5.63	0.59	0.351
		0.7	0.6	14.7	19.6 C	5.61	0.59	0.354
		0.85	0.7	12.6	19.67 C	5.57	0.56	0.360
		0.95	0.8	11.6	19.78 C	5.56	0.55	0.371
		1.15	0.9	7.82	20.17 C	5.56	0.53	0.391
	Apr-09	0.15	0.1	217	20.66 C	6.21	0.90	0.369
		0.35	0.2	165	20.61 C	6.14	0.53	0.375
		0.45	0.3	104	20.59 C	6.13	0.54	0.373
		0.55	0.4	79.2	20.55 C	6.11	1.05	0.368
		0.75	0.5	51.7	20.47 C	6.12	0.75	0.359
		1	0.7	42.9	20.44 C	6.08	1.72	0.348
		1.1	0.7	40.7	20.38 C	6.05	1.19	0.334
		1.2	0.8	29.6	20.29 C	6.12	1.84	0.325
		1.3	0.9	18.8	20.18 C	6.10	1.41	0.322
		1.45	1.0	18.3	20.17 C	6.09	1.49	0.320
		1.6	1.1	17.5	20.19 C	6.08	1.57	0.320
		1.65	1.1	15	20.15 C	6.07	1.86	0.320
		1.75	1.2	12.12	20.06 C	6.09	2.48	0.320
		1.8	1.2	8.95	20.03 C	6.06	2.42	0.321
	Oct-09[a]	0	0.0	140	21.53 C	6.28	1.29	0.499
		0.4	0.3	30.4	21.6 C	6.41	0.56	0.510
		1	0.7	22.3	21.7 C	6.43	0.56	0.550
		1.4	1.0	14.1	21.65 C	6.50	0.55	0.641
		1.95	1.4	10.4	21.64 C	6.54	0.56	0.692
		2.3	1.6	12.3	21.62 C	6.55	0.55	0.714
		2.5	1.8	19.2	21.53 C	6.56	0.59	0.717
		2.8	2.0	17.6	21.68 C	6.56	0.47	0.726
		3.05	2.2	20.97	21.67 C	6.57	0.39	0.727
		3.3	2.3	18.2	21.57 C	6.59	0.33	0.732
		3.5	2.5	14.5	21.6 C	6.59	0.31	0.734
		3.75	2.7	11.6	21.58 C	6.60	0.27	0.737
		4	2.8	9.46	21.59 C	6.60	0.30	0.739
	Apr-10[a]	0.2	0.1	148	23.3	5.88	2.18	0.299
		0.35	0.2	98.2	23.23	5.92	1.25	0.299
		0.45	0.3	76.2	23.04	5.94	1.23	0.301
		0.55	0.4	53.9	23.42	5.91	1.26	0.305
		0.65	0.5	40.1	23.41	5.92	1.31	0.312
		0.75	0.5	30.5	23.04	5.93	1.35	0.321
		0.85	0.6	22.2	22.79	5.93	1.36	0.331
		0.95	0.7	18.4	23.07	5.96	1.34	0.340
		1.05	0.7	14.9	23	5.97	1.32	0.347
		1.15	0.8	12.1	22.82	5.97	1.29	0.355
MW-10	Apr-10[a]	1.25	0.9	7.23	22.73	5.97	1.24	0.361
		1.4	1.0	6.27	22.66	5.97	1.21	0.368
		1.6	1.1	5.89	22.83	6.00	1.18	0.373
		1.8	1.3	5.04	22.41	6.03	1.14	0.378
		2	1.4	4.16	21.89	5.96	1.10	0.381
		2.2	1.5	4.51	21.79	5.96	1.08	0.382

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		2.4	1.7	4.21	21.61	5.95	1.06	0.384
		2.6	1.8	4.96	21.63	5.95	1.05	0.384
	Oct-10	0	0.0	79.0	22.84	5.96	2.36	0.183
		1	0.7	6.10	22.44	6.16	0.87	0.284
		1.9	1.3	3.55	22.04	6.19	0.66	0.336
		2	1.3	3.68	22.05	6.20	0.65	0.338
		2.1	1.4	3.09	21.98	6.20	0.66	0.338
	Apr-11[a]	0.25	0.2	45.3	20.96	4.93	3.99	0.265
		0.75	0.5	72.2	23.84	5.47	6.00	0.032
		2	1.3	179	23.47	5.64	6.15	0.031
		3	1.9	185	22.61	5.82	5.76	0.052
		3.75	2.4	188	22.9	6.01	5.26	0.064
		4.25	2.7	155	22.93	6.19	5.00	0.082
		4.65	2.9	125	22.66	6.16	4.85	0.092
		5.05	3.2	114	22.19	6.17	4.64	0.102
		5.35	3.4	72.8	21.69	6.24	4.46	0.119
		5.65	3.6	61.5	21.3	6.30	3.87	0.141
		5.95	3.8	52.3	21.1	6.41	3.43	0.162
		6.25	4.0	35	21.25	6.55	3.23	0.178
		6.55	4.1	22.5	21.06	6.33	3.19	0.191
		6.7	4.2	17	21.18	6.31	3.17	0.199
		6.85	4.3	13.1	21.24	6.29	3.21	0.203
		7	4.4	9.62	21.29	6.25	3.23	0.208
	Oct-11	0.15	0.1	26.40	21.34	5.93	0.75	0.252
		0.25	0.2	26.93	21.51	5.88	0.76	0.253
		0.4	0.3	21.8	21.30	5.87	0.49	0.256
		1	0.6	17.1	21.25	5.85	0.55	0.260
		1.2	0.8	16.3	21.38	5.86	0.60	0.262
		1.3	0.8	11.73	21.36	5.85	0.63	0.266
		1.5	1.0	9.85	21.37	5.86	0.61	0.269
		2	1.3	7.84	21.29	5.87	0.61	0.273
		2.4	1.6	9.73	21.30	5.87	0.60	0.278
		2.6	1.7	6.81	21.33	5.88	0.60	0.282
		2.75	1.8	4.77	21.41	5.89	0.65	0.285
		3	1.9	4.64	21.48	5.89	0.69	0.288
		3.25	2.1	4.62	21.37	5.90	0.78	0.291
		3.5	2.3	4.65	21.42	5.91	0.83	0.293
		3.75	2.4	4.70	21.44	5.91	0.90	0.295
		4	2.6	4.56	21.52	5.93	0.94	0.297
		4.25	2.8	4.60	21.44	5.93	0.96	0.298
		4.5	2.9	4.60	21.37	5.94	0.97	0.300
		4.75	3.1	4.30	21.37	5.93	0.96	0.301
	Apr-12	0.1	0.1	30	19.01	5.78	1.28	0.260
		0.25	0.2	28.2	19.3	5.76	1.09	0.255
		0.6	0.4	25.8	19.4	5.78	1.25	0.255
		0.8	0.5	53.5	19.83	5.74	1.09	0.255
		1.1	0.7	41	20.14	5.73	0.99	0.256
		1.25	0.8	18.8	20.07	5.89	1.07	0.258
		1.4	0.9	15.3	20.22	5.81	1.16	0.258
		1.6	1.0	9.62	20.35	5.95	1.34	0.257
		1.75	1.1	9.42	20.37	5.82	1.36	0.256
		1.9	1.2	8.65	20.6	5.87	1.27	0.255
		2	1.2	8.42	20.8	5.82	1.13	0.254
		2.25	1.4	6.12	20.99	5.81	1.02	0.253
		2.5	1.5	6.74	21.01	5.83	0.93	0.253
		2.8	1.7	7.59	21.12	5.75	0.76	0.252
		3.1	1.9	8.25	21.19	5.78	0.78	0.251
		3.3	2.0	8.65	21.09	5.71	0.71	0.249
		3.8	2.3	7.31	21.07	5.66	0.60	0.249
		4.4	2.7	7.26	21.15	5.71	0.54	0.249
		4.8	2.9	6.35	21.21	5.72	0.55	0.250
		5	3.1	4.21	21.23	5.74	0.55	0.250
	Oct-12	0.13	0.1	–	23.18	6.02	3.81	0.268
		0.53	0.4	17.6	22.59	5.75	1.92	0.268
		1.59	1.3	–	22.61	5.69	1.21	0.264
		2.38	1.9	18.1	22.62	5.84	0.77	0.285
		2.91	2.4	–	22.47	5.83	1.85	0.309
		3.43	2.8	3.84	22.29	5.82	1.83	0.341
		3.96	3.2	–	22.6	5.78	1.87	0.338
		4.23	3.4	3.91	22.64	5.88	1.81	0.339
	Apr-13	0.00	0.0	68.10	22.47	4.46	2.41	0.276
		0.20	0.1	30.10	21.19	4.59	0.86	0.268
		0.80	0.5	17.00	21.21	4.99	1.30	0.270
		1.50	0.9	5.50	21.18	5.29	1.39	0.265
		2.00	1.2	4.61	21.24	5.42	1.34	0.263
		2.50	1.5	3.70	21.26	5.41	1.27	0.265
		3.00	1.8	2.53	21.22	5.40	1.10	0.269
		4.00	2.5	2.30	21.12	5.42	0.90	0.271
		5.00	3.1	2.25	21.32	5.55	0.88	0.274
MW-11	Dec-01	2	0.7	999	16.3 C	6.90	1.31	0.596

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		6	2.0	813	17.5 C	6.85	1.29	0.553
		10	3.3	150	17.3 C	6.78	1.04	0.513
		15	5.0	134	17.4 C	6.76	1.15	0.507
	May-02	2	0.7	> 1000	19 C	5.41	0.97	0.332
		4	1.3	690	18.3 C	5.47	1.14	0.273
		6	2.0	512	18.3 C	5.83	1.20	0.221
	Sep-03[b]	3	1.0	144	18.0 C	6.18	0.42	0.259
		5	1.7	82.7	18.1 C	6.19	0.34	0.258
		7	2.3	66.6	18.1 C	6.36	0.34	0.257
		12[c]	4.0	43.7	18.1 C	6.52	0.49	0.255
		20[c]	6.7	242	18.1 C	6.54	0.33	0.240
	May-04	2	1.0	222	20.92 C	6.70	0.81	0.322
		3	1.5	146	21.45 C	6.48	0.98	0.307
		4	1.9	73.1	22.24 C	6.44	0.60	0.299
		5	2.4	29	22.44 C	6.43	0.51	0.309
		5.5	2.7	23.9	22.57 C	6.37	0.41	0.307
		6	2.9	14	23.44 C	6.35	0.51	0.304
		6.5	3.2	10.6	22.84 C	6.39	0.38	0.300
		7	3.4	9	22.61 C	6.38	0.35	0.302
		7.5	3.6	8.7	22.82 C	6.35	0.35	0.302
	Jul-06	8	2.7	26.1	18.2 C	7.56	0.51	0.295
		9	3.0	21.3	18.18 C	7.55	0.38	0.295
		10	3.3	10.1	18.14 C	7.52	0.27	0.290
	Apr-07	2	1.0	551	18.51 C	6.67	0.75	0.309
		6	3.1	71.7	18.40 C	6.48	0.36	0.285
		7	3.6	51.1	18.41 C	6.49	0.30	0.285
		8	4.1	20.5	18.31 C	6.47	0.24	0.284
		11	5.6	56.3	18.27 C	6.47	1.47	0.282
		11.5	5.9	14.7	18.28 C	6.46	0.33	0.282
		12	6.2	8.92	18.26 C	6.45	0.30	0.282
	Oct-07	0.2	0.2	751	17.78 C	7.07	2.20	0.426
		0.6	0.6	540	18.23 C	6.93	0.39	0.423
		1.3	1.3	213	18.5 C	6.89	0.29	0.424
		1.6	1.6	107	18.58 C	6.87	0.25	0.423
		2.1	2.1	45	18.61 C	6.86	0.24	0.420
		2.6	2.7	29.7	18.59 C	6.85	0.19	0.418
		3.2	3.3	24.2	18.59 C	6.84	0.19	0.417
	Apr-08	1	0.4	298	18.65 C	6.46	1.43	0.210
		2.5	1.1	74.5	18.14 C	6.39	0.81	0.213
		3.5	1.5	70.8	18.26 C	6.45	0.55	0.221
		4.25	1.8	72.2	18.15 C	6.33	0.45	0.231
		5	2.2	24.7	18.18 C	6.29	0.43	0.219
		5.5	2.4	22.1	18.23 C	6.27	0.35	0.219
		6	2.6	20.3	18.23 C	6.30	0.36	0.228
		6.5	2.8	13.3	18.31 C	6.30	0.28	0.226
		6.75	2.9	12	18.27 C	6.27	0.28	0.225
		7	3.0	9.15	18.32 C	6.28	0.26	0.224
	Oct-08	0.25	0.3	above range	17.63 C	8.19	0.61	0.344
		0.5	0.6	above range	18.00 C	8.32	0.66	0.419
		1	1.3	332	17.95 C	8.29	0.83	0.445
		1.5	1.9	393	18.01 C	8.23	0.88	0.452
		2	2.5	174	18.01 C	8.18	0.88	0.460
		3	3.8	333	17.98 C	8.12	0.79	0.460
		4	5.1	45.7	18.01 C	8.08	0.68	0.458
		4.5	5.7	21.3	18.05 C	8.03	0.60	0.456
		5	6.3	20.1	18.12 C	7.98	0.56	0.452
		5.25	6.6	22.9	18.01 C	7.95	0.51	0.455
		5.5	7.0	352	17.92 C	7.69	0.99	0.452
		5.75	7.3	248	17.97 C	7.75	0.57	0.466
	Apr-09	1.5	0.7	195	17.57 C	6.19	3.25	0.181
		3	1.4	114	17.60 C	6.19	1.66	0.214
		4.5	2.2	91.3	17.77 C	6.18	1.18	0.214
		6	2.9	75.5	17.76 C	6.18	0.94	0.216
		7	3.3	40.3	17.78 C	6.18	0.82	0.220
		7.5	3.6	30	17.79 C	6.18	0.78	0.220
		8	3.8	26.7	17.82 C	6.19	0.74	0.224
		8.5	4.1	19	17.84 C	6.18	0.72	0.220
		9	4.3	14.8	17.93 C	6.18	0.67	0.219
		9.25	4.4	14.6	17.99 C	6.19	0.69	0.219
		9.5	4.5	31.2	18.18 C	6.13	0.98	0.202
		10	4.8	19	17.89 C	6.17	0.92	0.219
		10.5	5.0	13.3	17.84 C	6.16	0.79	0.216
		11	5.3	9.8	17.83 C	6.16	0.69	0.219
	Oct-09	0.5	0.3	498	17.47 C	6.37	3.22	0.413
		1.5	0.8	161.4	17.57 C	6.17	0.59	0.388
		2.5	1.3	85.4	17.59 C	6.17	0.46	0.366
		3.25	1.7	52.2	17.62 C	6.21	0.40	0.350
		4	2.1	36.1	17.65 C	6.22	0.34	0.352
		4.4	2.3	21.2	17.63 C	6.25	0.31	0.336
		4.75	2.5	17.74	17.62 C	6.26	0.57	0.333

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-11		5.25	2.8	14.63	17.75 C	6.34	0.33	0.354
		5.75	3.0	11.65	17.86 C	6.43	0.26	0.348
		6.1	3.2	10.78	17.89 C	6.43	0.28	0.347
		6.25	3.3	9.01	17.88 C	6.43	0.28	0.347
	Apr-10[a]	1	0.3	above range	17.22	6.22	1.85	0.311
		2.75	0.9	316	17.29	6.21	1.11	0.264
		3.75	1.2	107.8	17.35	6.23	0.78	0.267
		5.25	1.7	76.7	17.39	6.25	0.63	0.270
		6.25	2.0	48.5	17.42	6.25	0.55	0.271
		7.25	2.4	26.2	17.44	6.25	0.49	0.273
		9.5	3.1	16.2	17.46	6.25	0.41	0.274
		11.25	3.7	42.4	17.45	6.26	0.34	0.278
		12.5	4.1	57.3	17.51	6.27	0.27	0.280
		14.25	4.6	27	17.5	6.26	0.27	0.279
		15.25	5.0	16.8	17.57	6.26	0.28	0.277
		17	5.5	21.5	17.58	6.25	0.29	0.276
		17.5	5.7	14.1	17.6	6.25	0.30	0.276
		18	5.9	24.3	17.58	6.25	0.32	0.277
	Oct-10	0.5	0.4	264	17.39	6.72	0.28	0.492
		1.5	1.1	127	17.46	6.73	0.17	0.487
		2.75	2.0	8.93	17.47	6.69	0.20	0.470
		4	2.9	8.8	17.44	6.67	0.36	0.464
		4.75	3.5	4.97	17.68	6.67	0.30	0.466
	Apr-11	3	1.3	246	17.38	6.44	3.46	0.294
		5	2.2	145	17.39	6.41	3.23	0.289
		6	2.6	240	17.43	6.43	3.02	0.301
		6.5	2.8	103	17.38	6.45	2.81	0.305
		7	3.0	144	17.23	6.51	2.69	0.365
		8	3.5	187	18.12	6.37	2.67	0.285
		10	4.3	42.3	17.92	6.37	2.63	0.288
		12	5.2	26.5	17.75	6.37	2.80	0.289
		15	6.5	19.2	17.71	6.37	2.64	0.288
		17	7.4	12.1	17.74	6.39	2.61	0.295
		19	8.3	8.72	17.68	6.39	2.58	0.295
	Oct-11	0.15	0.2	695	17.41	6.59	1.20	0.500
		0.5	0.7	653	17.75	6.71	0.49	0.515
		1	1.4	767	17.62	6.68	0.35	0.525
		1.5	2.1	688	17.61	6.64	0.33	0.516
		2	2.8	213	18.23	6.70	0.32	0.516
		2.5	3.5	80.7	18.15	6.73	0.29	0.528
	Apr-12	1.25	1.0	107.7	17.39	6.67	0.77	0.454
		2.25	1.8	44.7	17.53	6.67	0.85	0.453
		3.75	3.0	28.8	17.58	6.64	0.67	0.451
		4.25	3.5	12.9	17.58	6.62	0.56	0.448
		5	4.1	8.22	17.6	6.60	0.49	0.443
		6	4.9	3.29	17.59	6.60	0.41	0.440
		7	5.7	3.1	17.63	6.59	0.37	0.437
	Oct-12	0.09	1.0	215	17.98	6.46	5.44	0.508
		0.15	1.7	215	17.76	6.60	4.43	0.515
		0.25	2.8	231	17.66	6.73	4.62	0.518
		0.35	3.9	110	17.74	6.71	4.89	0.517
		0.45	5.0	68.2	17.67	6.76	4.65	0.518
		0.5	5.6	118	17.76	6.73	3.88	0.516
	Apr-13	1.25	13.89	176	18.01	6.29	0.87	0.414
		2.5	27.78	76.1	18.02	5.96	0.47	0.362
		3	33.33	37.8	18.08	5.9	0.41	0.334
		4	44.44	42.1	17.98	5.86	0.41	0.319
		4.75	52.78	32.1	18.00	5.87	0.39	0.311
		5	55.56	23.6	18.07	5.88	0.35	0.315
		5.5	61.11	22.3	18.20	5.93	0.3	0.327
		6	66.67	23.4	18.10	5.92	0.3	0.314
		6.5	72.22	19.2	18.11	5.93	0.28	0.311
		7	77.78	14.6	18.04	5.91	0.26	0.304
		7.5	83.33	9.68	18.01	5.92	0.25	0.304
	Oct-13	1	5.99	205	20.12	6.64	0.11	437
		2	11.98	13.9	20.14	6.49	0.10	368
		3.5	20.96	4.0	19.26	6.43	0.05	377
		5.5	32.93	2.4	19.40	6.43	0.02	373
		8	47.90	0	19.53	6.43	0.01	374
	Apr-14	2.50	14.97	9.81	17.41	6.92	2.35	0.33
		4.00	23.95	7.89	17.47	6.47	1.07	0.34
		6.00	35.93	6.89	17.45	6.44	1.06	0.34
		7.50	44.91	4.19	17.38	6.45	0.67	0.34
		8.50	50.90	2.17	17.18	6.45	0.65	0.34
		10.00	59.9	3.21	17.23	6.45	0.68	0.336
	Oct-14	2.00	1.25	53.10	17.58	6.61	0.25	0.491
		3.50	2.19	12.15	17.48	6.53	0.43	0.439
		5.00	3.13	8.03	17.47	6.51	0.66	0.431
		6.50	4.06	6.93	17.47	6.51	0.68	0.430
		8.00	5.00	5.18	17.48	6.52	0.65	0.431

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
	Apr-15	3.00	1.88	27.10	17.42	5.84	0.15	0.397
		6.00	3.75	9.99	17.42	5.85	0.12	0.351
		9.00	5.63	8.71	17.44	5.93	0.16	0.343
		12.00	7.50	5.04	17.43	5.99	0.16	0.344
		15.00	9.38	4.11	17.44	5.98	0.18	0.343
MW-12	Dec-01	3	2.1	999	16.4 C	7.13	1.64	0.504
		6	4.3	845	16.3 C	7.18	1.59	0.508
		9	6.4	745	16.4 C	7.16	1.83	0.501
	May-02	not sampled due to insufficient water in the well						
	Sep-03	2	1.4	97.4	18.5 C	6.73	0.59	0.332
		3	2.1	36.9	18.5 C	6.69	0.37	0.331
		7	5.0	12.1	18.6 C	6.77	0.30	0.335
		8	5.7	8.8	18.6 C	6.80	0.29	0.336
	May-04	0.25	0.2	19	20.54 C	6.34	1.99	0.333
		0.5	0.5	14.1	20.81 C	6.25	1.18	0.328
		0.75	0.7	12.3	22.01 C	6.19	1.07	0.320
		1	0.9	9.5	23.58 C	6.24	0.98	0.326
		1.25	1.1	7.9	24.96 C	6.22	0.92	0.328
	Jul-06	1	0.9	90.1	21.51 C	7.30	0.27	0.357
		2	1.8	1134	22.72 C	7.15	0.34	0.359
		3.5	3.2	335	25.21 C	7.07	0.21	0.360
		5.5	5.0	47.3	19.86 C	7.20	0.10	0.114
		7	6.4	44.2	25.55 C	7.14	0.24	0.363
		9	8.3	39.1	19.34 C	7.20	0.07	0.369
		11	10.1	28.6	19.43 C	7.19	0.06	0.373
		12	11.0	27	19.50 C	7.18	0.07	0.374
	Apr-07	0.5	0.7	11.5	18.34 C	6.75	0.87	0.445
		1.2	1.6	7.5	18.34 C	6.77	0.37	0.451
		1.8	2.4	5.3	18.33 C	6.73	0.27	0.454
		2.5	3.3	3.2	18.30 C	6.77	0.26	0.455
	May-07			27.5	24.1 C	6.85	3.57	0.478
				25.5	22.4 C	6.91	0.54	0.474
				22.7	21.5 C	6.97	0.14	0.475
				14.4	21.5 C	7.02	0.07	0.479
				11.6	21.5 C	7.03	0.02	0.482
				9.3	21.4 C	7.04	0.01	0.485
	Oct-07[d]	0	0.0	230	19.6 C	6.48	4.20	0.418
		0.1	0.4	137	19.95 C	6.29	1.90	0.409
		0.15	0.6	99.7	20.54 C	6.26	1.69	0.405
		0.25	0.9	17.1	19.61 C	6.26	2.18	0.409
		0.4	1.5	30.4	19.94 C	6.24	2.57	0.410
		0.5	1.9	25.6	20.14 C	6.18	4.38	0.406
		0.6	2.2	25.4	20.08 C	6.17	4.58	0.402
		0.75	2.8	13.9	20.05 C	6.15	4.93	0.397
		0.8	3.0	13.9	20.18 C	6.14	4.92	0.393
		0.9	3.3	14.8	20.41 C	6.13	5.07	0.392
		1	3.7	15.9	20.35 C	6.11	5.55	0.390
		1	3.7	13.5	20.36 C	6.11	5.40	0.389
		1.1	4.1	16.1	20.37 C	6.10	5.40	0.386
		1.5	5.6	10.02	20.01 C	6.12	3.30	0.401
		1.6	5.9	7.32	20.23 C	6.12	2.83	0.406
		1.6	5.9	5.9	20.24 C	6.14	1.58	0.410
		1.7	6.3	5.65	20.8 C	6.15	1.03	0.409
		1.7	6.3	5.32	20.9 C	6.16	1.00	0.409
		1.8	6.7	5.37	21.5 C	6.16	0.96	0.406
	Apr-08	0	0.0	17.1	21.46 C	6.34	1.67	0.381
		0.15	0.3	13.7	20.63 C	6.26	0.88	0.380
		0.2	0.4	8.81	19.79 C	6.21	0.54	0.383
		0.3	0.6	6.76	19.37 C	6.33	0.85	0.388
		0.5	1.0	5.26	19.36 C	6.29	0.60	0.390
		0.7	1.3	4.22	19.36 C	6.30	0.44	0.393
	Oct-08	Used a bailer, not enough water in the bailer for water quality or to collect sample.						
	Apr-09	0.35	1.0	129	19.05 C	6.84	3.62	0.418
		0.7	2.0	69.7	18.78 C	6.53	2.76	0.427
		0.87	2.5	68.4	19.00 C	6.45	3.74	0.427
		1.04	3.0	65.8	18.86 C	6.45	4.47	0.428
		1.18	3.4	58.6	19.03 C	6.39	3.72	0.429
		1.39	4.0	61	18.86 C	6.39	4.47	0.431
		1.56	4.5	29	19.03 C	6.42	3.40	0.434
		1.74	5.0	66.5	18.71 C	6.43	2.92	0.429
		1.98	5.7	60.4	18.68 C	6.39	2.45	0.433
	Oct-09	Used a bailer due to insufficient water in well for pump						
		0.4	0.5		19.11 C	7.05	1.02	0.411
		0.8	1.0	203	19.59 C	6.62	1.42	0.387

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.2	1.6		20.58 C	6.50	0.74	0.388
		1.6	2.1	112.9	19.66 C	6.46	1.40	0.384
		2	2.6		19.93 C	6.48	1.13	0.383
		2.4	3.1	117.4	20.26 C	6.51	1.32	0.384
	Apr-10	0.2	0.1	356	19	6.23	0.76	0.428
		0.3	0.2	410	18.69	6.30	0.46	0.425
		0.4	0.2	395	18.45	6.34	0.64	0.424
		0.6	0.4	245	18.25	6.37	0.59	0.428
		0.8	0.5	164	18.22	6.41	0.53	0.437
		1.1	0.7	119	18.2	6.36	0.49	0.448
		1.35	0.8	76.3	18.29	6.37	0.48	0.455
		1.6	1.0	57.5	18.46	6.32	0.46	0.460
		1.8	1.1	45.2	18.46	6.37	0.42	0.464
		2	1.2	31.3	18.55	6.38	0.40	0.467
		2.2	1.4	23.7	18.58	6.40	0.39	0.469
		2.4	1.5	16.6	18.52	6.41	0.38	0.472
		2.6	1.6	18.2	18.48	6.41	0.37	0.474
		2.8	1.7	14.2	18.54	6.40	0.38	0.475
		3	1.9	12.6	18.42	6.41	0.38	0.475
		3.2	2.0	8.72	18.39	6.38	0.38	0.475
	Oct-10	0	0.0	ADL	20.47	6.07	1.58	0.363
		1.8	1.9	50.2	19.30	6.31	0.44	0.363
		2.4	2.6	13.8	19.19	6.42	0.40	0.364
		2.6	2.8	10.2	19.15	6.46	0.38	0.365
		2.8	3.0	9.60	19.11	6.49	0.35	0.366
	Apr-11[a]	0.25	0.3	ADL	18.36	6.26	5.06	0.370
		0.45	0.6	205	17.97	6.09	4.98	0.367
		0.65	0.8	36.2	18.41	6.49	5.05	0.368
		0.85	1.1	22.8	18.42	6.51	4.86	0.368
		1.05	1.3	11.3	18.76	6.54	4.63	0.369
		1.25	1.6	11.1	18.90	6.56	4.45	0.370
		1.45	1.8	8.88	19.00	6.58	4.33	0.370
MW-12	Apr-11[a]	1.65	2.1	5.65	18.99	6.59	4.37	0.371
		1.85	2.3	5.24	18.88	6.60	4.31	0.372
		2.05	2.6	5.24	18.59	6.59	4.23	0.372
		2.25	2.8	4.61	18.67	6.59	4.11	0.373
		2.35	2.9	4.58	18.87	6.60	4.03	0.373
		2.45	3.1	3.53	19.07	6.61	3.91	0.374
	Oct-11	Not sampled due to access restrictions						
	Apr-12	0.1	1	>1000	19.9	6.03	1.02	0.474
		0.2	2	>1000	18.78	6.41	0.88	0.415
		0.3	3	>1000	18.53	6.20	1.20	0.409
		0.4	4	>1000	18.36	5.96	1.24	0.410
		0.5	5	>1000	18.96	6.38	1.02	0.406
	Oct-12	Not sampled due to insufficient water						
	13-Apr	0	0	56.5	18.92	6.16	1.53	0.456
		0.2	0.3	40.3	18.73	5.67	0.57	0.459
		0.3	0.4	8.17	18.66	6.18	0.89	0.454
		0.5	0.6	8.12	20.46	6.45	0.43	0.454
		0.7	0.9	5.21	18.77	6.05	0.34	0.455
		1	1.3	3.75	19.07	6.33	0.35	0.449
		1.2	1.5	3.01	19.20	6.38	0.34	0.447
		1.5	1.9	5.47	19.20	6.37	0.31	0.444
	13-Oct	0	0	0	19.48	6.58	1.71	0.328
		0.4	0.5	35.2	18.72	6.64	0.56	0.323
		0.75	0.9	9.71	18.57	6.65	0.47	0.322
		1	1.3	5.48	18.69	6.66	0.41	0.322
		1.3	1.6	6.12	18.54	6.66	0.33	0.323
		1.45	1.8	3.55	18.63	6.66	0.31	0.323
		1.6	2.0	3.01	18.56	6.66	0.28	0.323
	14-Apr	0.5	0.6	91.53	16.76	6.28	0.39	0.375
		1.0	1.3	58.1	16.59	6.39	0.40	0.376
		1.5	1.9	28.0	16.56	6.42	0.44	0.377
		2.0	2.5	17.8	16.69	6.45	0.43	0.377
		2.5	3.1	6.22	16.63	6.48	0.37	0.373
		3.0	3.8	5.23	16.73	6.50	0.34	0.370
		3.5	4.4	3.32	16.71	6.50	0.32	0.367
		4.0	5.0	2.50	16.72	6.52	0.30	0.363
		4.5	5.6	2.15	16.62	6.52	0.29	0.361
	Oct-14	0.50	0.5	19.70	21.67	6.23	0.34	0.352
		1.00	0.9	9.36	21.32	6.32	0.38	0.353
		1.50	1.4	4.40	20.85	6.35	0.34	0.351
		2.10	1.9	2.50	21.10	6.41	0.26	0.351
		2.75	2.5	2.43	21.04	6.43	0.24	0.350
		3.00	2.8	2.71	21.02	6.44	0.23	0.351
		3.27	3.0	2.50	20.57	6.35	0.23	0.348
	Apr-15	0.20	0.18	24.60	18.43	6.19	0.43	0.351
		0.75	0.69	16.10	18.28	6.29	0.32	0.356
		1.00	0.92	7.24	18.27	6.33	0.25	0.355
		1.50	1.38	6.10	18.21	6.36	0.22	0.353

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		2.00	1.83	3.59	18.29	6.38	0.20	0.350
		2.40	2.20	2.45	18.38	6.39	0.18	0.348
		2.75	2.52	2.93	18.24	6.39	0.17	0.347
		3.00	2.75	3.10	18.24	6.39	0.16	0.346
		3.50	3.21	1.56	18.24	6.41	0.15	0.346
		4.00	3.67	1.35	18.40	6.45	0.14	0.345
		4.50	4.13	0.94	18.93	6.44	0.13	0.344
		5.00	4.59	1.00	18.87	6.40	0.14	0.345
		5.50	5.05	0.97	19.33	6.45	0.12	0.345
MW-13a	Dec-01	2	2	953	15.7 C	6.42	7.04	0.514
		4	4	41	16.7 C	6.26	8.76	0.501
	May-02	1	1	> 1000	19.6 C	6.04	3.26	0.191
		2	2	534	19.8 C	6.04	3.29	0.190
		3	3	410	19.8 C	6.05	3.38	0.185
	May-02	1	1	999	19.6 C	6.08	3.27	0.187
		2	2	778	19.9 C	6.05	3.27	0.188
		3	3	234	19.8 C	6.07	3.38	0.183
	Sep-03	not sampled due to well damage						
	May-04	Replaced with MW-13aR						
MW-13aR	May-04	0.12	0.08	84.9	20.07 C	6.27	4.81	0.230
		0.24	0.17	65.7	20.09 C	6.23	4.32	0.229
		0.36	0.25	57.8	20.65 C	6.20	4.33	0.228
		0.48	0.34	47	21.29 C	6.19	4.58	0.230
		0.6	0.42	35.9	20.38 C	6.25	4.56	0.234
		0.72	0.51	33	19.75 C	6.24	4.48	0.230
		0.84	0.59	44.9	19.62 C	6.21	4.13	0.232
		0.96	0.68	27.8	21.04 C	6.18	3.89	0.229
		1	0.70	25.9	23.14 C	6.19	3.77	0.227
		1.12	0.79	25.2	23.4 C	6.21	3.92	0.232
		1.24	0.87	23.5	24.01 C	6.22	3.93	0.233
		1.36	0.96	21	24.83 C	6.24	3.82	0.233
		1.48	1.04	22.5	24.94 C	6.21	3.83	0.023
		1.6	1.13	27.7	24.88 C	6.20	3.86	0.234
		1.7	1.20	27.3	24.73 C	6.20	3.87	0.233
		1.8	1.27	25.9	24.6 C	6.19	3.89	0.231
		1.9	1.34	23.6	24.56 C	6.19	3.85	0.230
		1.95	1.37	21.9	24.52 C	6.18	3.93	0.228
		2	1.41	20.3	24.4 C	6.17	3.88	0.227
		2.12	1.49	19.9	24.36 C	6.17	3.85	0.225
		2.24	1.58	19.3	24.73 C	6.17	4.40	0.213
		2.36	1.66	16.2	24.77 C	6.17	4.27	0.214
		2.48	1.75	15.6	24.74 C	6.16	4.23	0.215
		2.6	1.83	15.7	24.61 C	6.17	4.14	0.216
		2.72	1.92	15.7	24.62 C	6.12	4.20	0.213
		2.84	2.00	15.8	24.59 C	6.15	4.24	0.217
		3	2.11	15.5	24.33 C	6.13	4.25	0.213
		3.12	2.20	14.5	24.41 C	6.13	4.21	0.213
		3.24	2.28	13.7	24.66 C	6.14	4.16	0.213
		3.36	2.37	11.6	25.05 C	6.13	4.15	0.212
		3.48	2.45	11.6	25.3 C	6.13	4.18	0.211
		3.6	2.54	15.6	25.39 C	6.12	4.16	0.208
		3.72	2.62	14	25.21 C	6.12	4.36	0.209
		3.84	2.70	13.6	25.36 C	6.12	4.21	0.210
		3.96	2.79	13.3	25.34 C	6.13	4.23	0.206
		4.08	2.87	13	25.33 C	6.11	4.21	0.208
		4.2	2.96	9.8	25.09 C	6.19	4.56	0.201
		4.25	2.99	9.7	25.06 C	6.18	4.60	0.201
	Jul-06	10	7.04	161	18.22 C	5.55	0.93	0.084
		12	8.45	59	18.27 C	5.64	0.90	0.084
		15	10.56	100	19.01 C	5.96	0.94	0.084
		25	17.61	80	18.47 C	5.75	0.80	0.084
		26	18.31	10.2	18.47 C	5.76	0.79	0.084
MW-13aR	Apr-07	2.5	1.87	> 1000	17.80 C	5.24	6.62	0.125
		5	3.73	367	17.84 C	5.23	6.61	0.124
		6	4.48	339	18.14 C	5.24	6.56	0.123
		6.5	4.85	161.7	17.86 C	5.27	6.87	0.124
		12	8.96	327	18.09 C	5.24	6.67	0.123
		15	11.19	181	17.94 C	5.26	6.63	0.124
		18	13.43	134.2	18.01 C	5.24	6.59	0.124
		20	14.93	98.9	17.99 C	5.23	6.69	0.123
		22	16.42	41.7	17.82 C	5.27	6.52	0.124
		25	18.66	20.9	17.79 C	5.24	6.42	0.124
		25.5	19.03	12.2	17.81 C	5.24	6.40	0.124
		30	22.39	8.6	17.81 C	5.23	6.38	0.124
	Oct-07	0.6	0.80	above range	18.38 C	5.42	5.29	0.120
		1.2	1.60	above range	18.08 C	5.45	5.57	0.122
		1.7	2.27	680	18.56 C	5.48	5.82	0.121
		2.1	2.80	274	18.29 C	5.46	5.87	0.119
		2.4	3.20	720	19.31 C	5.47	5.42	0.122
		3.2	4.27	367	18.36 C	5.48	5.91	0.118

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		3.5	4.67	724	18.41 C	5.49	5.53	0.120
		3.9	5.20	294	19.43 C	5.53	5.63	0.121
		4.3	5.73	375	18.74 C	5.56	5.72	0.119
		5	6.67	259	18.76 C	5.64	5.69	0.113
	Apr-08[a]	0.1	0.14	above range	19.74 C	6.57	5.44	0.244
		0.3	0.41	above range	21.03 C	6.92	0.22	0.290
		0.4	0.54	above range	21.34 C	7.02	1.62	0.302
		0.75	1.01	above range	19.55 C	7.00	2.71	0.270
		1.25	1.69	above range	20.48 C	6.99	3.39	0.250
		1.75	2.36	395	20.29 C	6.98	3.17	0.247
		2.25	3.04	299	18.93 C	6.99	4.97	0.244
		2.75	3.72	259	18.33 C	7.01	3.96	0.242
		3.25	4.39	above range	20.49 C	7.03	1.54	0.241
		3.75	5.07	above range	21.37 C	7.07	2.12	0.241
		4.25	5.74	242	20.66 C	7.08	1.56	0.236
		4.4	5.95	285	20.53 C	7.08	1.44	0.234
		4.6	6.22	524	19.2 C	7.08	0.78	0.231
		4.8	6.49	365	19.71 C	7.07	0.57	0.233
		4.9	6.62	315	18.34 C	7.07	0.80	0.233
		5	6.76	295	18.51 C	7.07	0.76	0.233
	Oct-08	0.01	0.02	322	16.45 C	5.81	7.87	0.146
		0.05	0.09	342	16.45 C	5.54	7.49	0.135
		0.1	0.17	395	16.51 C	5.51	7.24	0.132
		0.2	0.34	332	16.61 C	5.42	7.17	0.128
		0.25	0.43	239	16.58 C	5.38	6.97	0.126
		0.35	0.60	196	16.55 C	5.35	6.89	0.125
		0.4	0.69	164	16.50 C	5.33	6.97	0.124
		0.45	0.78	113	16.47 C	5.30	6.88	0.123
		0.5	0.86	55.1	16.46 C	5.30	6.82	0.122
		0.55	0.95	42.8	16.43 C	5.28	6.70	0.121
		0.6	1.03	26.8	16.40 C	5.25	6.91	0.120
		0.65	1.12	17.7	16.39 C	5.25	6.65	0.120
		0.75	1.29	16.3	16.37 C	5.24	6.58	0.120
		0.8	1.38	14.3	16.37 C	5.23	6.49	0.120
		0.85	1.47	12.29	16.39 C	5.22	6.45	0.119
		0.95	1.64	8.63	16.41 C	5.22	6.41	0.119
	Apr-09[a]	0	0.00	602	16.09 C	5.70	7.57	0.142
		0.05	0.10	614	16.23 C	5.77	6.95	0.144
		0.1	0.21	591	16.31 C	5.78	6.85	0.143
		0.15	0.31	493	16.47 C	5.78	6.84	0.143
		0.25	0.52	490	16.51 C	5.75	6.67	0.141
		0.3	0.63	231	16.50 C	5.73	6.70	0.136
		0.4	0.83	116	16.63 C	5.69	6.71	0.133
		0.45	0.94	60.7	16.51 C	5.65	6.77	0.131
		0.5	1.04	31.8	16.51 C	5.61	6.83	0.128
		0.55	1.15	22.1	16.52 C	5.59	6.91	0.128
		0.65	1.35	25.1	16.59 C	5.60	6.78	0.124
		0.7	1.46	17.7	16.53 C	5.56	6.78	0.121
		0.75	1.56	14.1	16.48 C	5.56	6.76	0.120
		0.8	1.67	13.9	16.49 C	5.55	6.79	0.121
		0.8	1.67	12	16.69 C	5.56	6.66	0.121
		0.8	1.67	9.73	16.68 C	5.56	6.69	0.120
	Oct-09[a]	0.05	0.05	251	18.09 C	5.52	6.04	0.128
		0.3	0.33	245	17.48 C	5.37	6.34	0.123
		0.75	0.82	252	17.3 C	5.35	6.17	0.121
		1.05	1.14	176	17.45 C	5.34	6.25	0.121
		1.4	1.52	43.6	17.15 C	5.30	6.16	0.120
		1.9	2.07	31.2	17.15 C	5.30	6.14	0.120
		2.15	2.34	28.6	17.21 C	5.32	6.06	0.120
		2.4	2.61	17.4	17.18 C	5.31	6.07	0.120
		2.6	2.83	13.7	17.17 C	5.31	6.07	0.120
		2.95	3.21	10.8	17.17 C	5.31	6.06	0.119
		3.15	3.42	9.76	17.17 C	5.31	6.04	0.120
	Apr-10	0.75	0.37	above range	17.74	4.59	6.57	0.244
		2	0.99	249	17.97	4.85	6.40	0.230
		3.25	1.61	53.7	17.99	4.93	6.22	0.226
		4.5	2.23	20.8	17.98	4.98	6.07	0.222
MW-13aR	Apr-10	6	2.97	18.5	18.04	5.02	5.98	0.220
		7.25	3.59	44.2	17.88	5.01	5.93	0.215
		9.75	4.83	64.2	17.75	5.02	5.86	0.217
		11	5.45	55.5	17.69	5.00	5.74	0.220
		13	6.44	121	17.64	5.06	5.67	0.215
		14	6.93	25.3	18.03	5.11	5.63	0.217
		14.5	7.18	17.9	17.96	5.11	5.66	0.213
		15.5	7.67	10.08	17.94	5.09	5.65	0.214
	Oct-10	0.5	0.3	424	17.84	5.19	6.89	0.169
		6.25	3.6	43.6	18.29	5.23	6.95	0.159
		7.5	4.3	29.2	18.41	5.25	6.86	0.158
		8	4.5	22.4	18.47	5.28	6.69	0.158
		8.5	4.8	27.3	18.16	5.26	6.88	0.158

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
	Apr-11[a]	0.5	0.4	ADL	17.79	5.61	8.53	0.135
		2.5	2.0	705	17.96	5.69	8.79	0.137
		5	4.1	278	17.84	5.75	8.78	0.136
		6.5	5.3	170	18.18	5.74	8.74	0.135
		8.5	6.9	174	18.15	5.76	8.78	0.135
		9.5	7.7	160	18.22	5.76	8.78	0.137
		10	8.1	161	18.2	5.68	8.64	0.136
		11.5	9.3	61.7	18.29	5.63	8.70	0.138
		12	9.8	106	18.99	5.56	9.01	0.138
		12.5	10.2	273	18.58	5.60	8.93	0.137
	Oct-11	Not sampled due to access restrictions						
	Apr-12	0.1	0.2	468	16.9	5.04	6.25	0.165
		0.25	0.5	889	16.83	5.27	5.95	0.153
		0.3	0.6	675	16.84	5.37	5.95	0.147
		0.5	1.0	104	16.89	5.37	6.03	0.141
		0.6	1.2	110	16.92	5.33	6.16	0.136
		0.75	1.4	118	16.85	5.30	6.35	0.133
		0.85	1.6	58.9	16.89	5.31	6.49	0.132
		0.95	1.8	50.6	16.9	5.32	6.55	0.132
		1	1.9	92.3	16.83	5.32	6.61	0.132
		1.1	2.1	123	16.95	5.30	7.12	0.131
		1.2	2.3	93.6	16.95	5.31	7.81	0.130
		1.3	2.5	43.5	16.88	5.33	7.96	0.128
		1.4	2.7	40.3	16.96	5.30	7.71	0.128
		1.5	2.9	35	16.95	5.30	7.98	0.127
		1.6	3.1	40.5	16.91	5.31	8.43	0.128
		1.75	3.4	14.7	16.86	5.30	8.37	0.127
		1.9	3.7	10.79	16.83	5.30	8.72	0.127
		2.1	4.0	7.26	16.86	5.30	9.14	0.126
		2.3	4.4	6.14	16.83	5.31	8.71	0.127
		2.6	5.0	6.31	16.84	5.31	8.02	0.127
	Oct-12	0.1	0.4	249	17.58	6.01	7.48	0.206
	Apr-13	0	0.0	450	18.34	5.78	7.92	0.175
MW-13b	Dec-01	20	0.8	999	15.8 C	9.06	7.66	0.503
		30	1.3	999	16 C	8.86	8.37	0.486
		40	1.7	999	16.1 C	8.11	7.95	0.446
		50	2.1	990	16.1 C	8.18	7.60	0.359
		80	3.3	395	15.7 C	8.11	7.82	0.308
		100	4.2	150	15.2 C	8.09	7.90	0.290
		120	5.0	130	15 C	8.10	7.59	0.279
	May-01	20	0.8	999	17.3 C	4.57	3.52	0.180
		40	1.7	999	17.4 C	5.26	3.41	0.233
	Sep-03[b]	10	1.7	764	18.0 C	5.61	6.53	0.200
		20	3.4	400	18.1 C	5.75	6.44	0.190
		30	5.1	188	18.0 C	5.86	6.35	0.155
		40	6.8	189	18.0 C	5.88	6.33	0.153
	May-04	1	0.2	316	20.6 C	5.97	4.58	0.135
		11	1.9	14.1	21.07 C	5.65	5.25	0.117
		13.5	2.3	9.8	20.85 C	5.63	5.44	0.116
		14	2.4	9.1	21.13 C	5.59	5.12	0.116
		15	2.5	8.7	21.15 C	5.61	5.45	0.116
	Jul-06	6	1.0	12	18.71 C	6.43	0.36	0.086
		7	1.2	10	18.55 C	6.43	0.49	0.087
		10	1.7	9.8	18.53 C	6.43	0.51	0.085
	Apr-07	4	0.7	488	17.47 C	5.92	5.61	0.134
		7	1.2	158	17.40 C	5.83	5.67	0.130
		12	2.1	29.4	17.48 C	5.80	5.72	0.128
		15	2.6	130	17.64 C	5.87	5.91	0.131
		18	3.1	36.4	17.42 C	5.84	5.94	0.130
		19.5	3.4	14.2	17.50 C	5.78	5.82	0.130
		21	3.7	7.9	17.57 C	5.78	5.84	0.130
	Oct-07[a]	0.2	0.0	1001	17.91 C	6.63	0.57	0.238
		1.2	0.2	473	18.57 C	6.08	1.20	0.158
		2.1	0.4	935	19.07 C	5.97	4.20	0.137
		4.5	0.9	444	18.04 C	5.91	4.04	0.130
		7.3	1.4	74	17.73 C	5.84	4.12	0.125
		10.9	2.1	37.1	17.68 C	4.21	4.19	0.124
		12.4	2.4	18.8	17.76 C	5.85	4.33	0.123
		13.8	2.7	18.5	17.67 C	5.82	4.29	0.123
		15.5	3.0	12.8	17.74 C	5.85	4.22	0.123
		17.4	3.4	13.6	17.78 C	5.83	4.26	0.123
		18.2	3.5	11.2	17.72 C	5.83	4.08	0.123
		18.8	3.6	9.87	17.72 C	5.82	4.14	0.123
	Apr-08[a]	1	0.2	362	18.83 C	6.62	1.10	0.249
		2	0.4	333	17.87 C	6.20	1.93	0.168
		3	0.6	456	18.39 C	5.98	3.20	0.152
		4	0.8	275	17.85 C	5.92	3.98	0.146
		5	0.9	248	17.55 C	5.87	3.87	0.145
		5.5	1.0	352	18.53 C	5.85	3.50	0.145
		6	1.1	137	18.41 C	5.85	3.49	0.143

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-13b		6.75	1.3	205	18.86 C	5.86	3.57	0.143
		7.5	1.4	162	18.55 C	5.83	3.74	0.142
		8.5	1.6	215	18.66 C	5.79	3.60	0.142
		10	1.9	213	18.77 C	5.84	3.84	0.142
		11	2.1		18.38 C	5.82	3.94	0.141
		12	2.3	262	17.48 C	5.93	3.29	0.144
		13	2.5	181	17.36 C	5.92	3.77	0.138
		13.75	2.6	165	17.63 C	5.91	3.80	0.137
		14.5	2.7	50.7	17.74 C	5.95	4.18	0.136
		15.25	2.9	26.7	18.05 C	5.91	3.99	0.134
		15.75	3.0	28.8	18.01 C	5.91	3.97	0.134
		16.25	3.1	19.8	17.69 C	5.92	4.08	0.133
		16.75	3.2	23.3	17.47 C	5.86	4.06	0.133
		17.25	3.3	28.2	17.57 C	5.85	4.02	0.133
		18.5	3.5	59.8	18.02 C	5.90	4.12	0.133
		20	3.8	35.4	18.43 C	5.88	4.15	0.132
		20.75	3.9	14.5	18.47 C	5.89	4.04	0.132
		21.5	4.1	8.54	18.47 C	5.91	4.08	0.133
	Oct-08	1	0.2	122	17.25 C	6.42	-0.05	0.152
		2	0.4	164	17.41 C	6.14	-0.02	0.134
		3	0.6	207	17.45 C	6.11	-0.01	0.136
		4	0.8	70.6	17.50 C	5.83	4.72	0.132
		5	1.0	125	17.45 C	5.75	4.33	0.130
		6	1.2	49.7	17.51 C	5.74	4.46	0.129
		7	1.4	22.9	17.52 C	5.72	4.56	0.128
		8	1.6	24.4	17.53 C	5.72	4.58	0.127
		9	1.8	16.6	17.53 C	5.73	4.59	0.127
		10	2.0	11.9	17.52 C	5.72	4.61	0.127
		11	2.2	8.89	17.52 C	5.72	4.62	0.127
	Apr-09	0.75	0.1	588	17.31 C	6.33	3.55	0.167
		1.25	0.2	568	17.45 C	6.04	3.90	0.148
		2	0.4	262	17.60 C	5.96	4.43	0.143
		2.75	0.5	109	17.62 C	5.91	4.73	0.138
		3.75	0.7	40.5	17.64 C	5.89	4.84	0.135
		4.5	0.9	34.4	17.62 C	5.88	4.85	0.134
		5	1.0	21.9	17.71 C	5.86	4.93	0.134
		5.75	1.1	19.1	17.75 C	5.88	4.90	0.133
		6.5	1.3	16.8	17.76 C	5.88	4.88	0.133
		7	1.4	15	17.57 C	5.87	4.92	0.133
		7.25	1.4	11.9	17.48 C	5.86	4.92	0.133
		7.5	1.5	12	17.46 C	5.86	5.50	0.133
		7.75	1.5	11.1	17.56 C	5.89	5.05	0.133
		8	1.6	9.55	17.50 C	5.89	4.97	0.133
	Oct-09	1	0.2	393	17.27 C	5.31	2.71	0.145
		1.5	0.3	425	17.48 C	5.19	2.74	0.146
		2.25	0.4	134	17.55 C	5.06	3.64	0.133
		3	0.5	74.3	17.59 C	4.99	3.72	0.131
		5	0.9	33.4	17.52 C	4.99	3.73	0.130
		6	1.1	36.1	17.53 C	4.98	3.80	0.129
		7	1.3	27.4	17.61 C	5.02	3.85	0.130
		8	1.5	20.6	17.59 C	5.06	3.91	0.131
		8.75	1.6	19.9	17.64 C	5.11	3.90	0.130
		9.75	1.8	15.4	17.67 C	5.21	3.86	0.130
		10	1.8	13.27	17.64 C	5.26	3.86	0.134
		11	2.0	12.21	17.68 C	5.29	3.86	0.129
		12	2.2	10.13	17.69 C	5.35	3.89	0.127
		13.25	2.4	10.98	17.66 C	5.37	3.89	0.129
		14	2.6	9.78	17.66 C	5.37	3.90	0.130
	Apr-10	1	0.2	87	17.83	4.70	2.72	0.136
		2.5	0.4	53.8	17.89	4.95	3.90	0.133
		3.25	0.5	38.1	17.92	5.18	4.37	0.133
		4.25	0.7	25.2	17.95	5.27	4.42	0.134
		5.25	0.8	19.2	17.92	5.33	4.40	0.133
		7	1.1	17.8	17.98	5.36	4.40	0.133
		8	1.3	12.3	17.94	5.43	4.40	0.132
		8.5	1.3	10.82	18.03	5.48	4.40	0.132
		9.5	1.5	9.75	17.96	5.51	4.43	0.132
		10.25	1.6	8.39	17.99	5.54	4.39	0.132
		11.5	1.8	7.35	18.02	5.55	4.40	0.132
	Oct-10	1.25	0.2	17.6	17.63	5.85	3.07	0.140
		4.75	0.8	35.3	17.76	5.88	5.08	0.135
		6.5	1.1	15.1	17.87	5.88	5.28	0.136
		7.5	1.3	13.3	17.91	5.89	5.37	0.138
		8	1.3	12.3	17.97	5.89	5.40	0.139
		8.5	1.4	9.64	17.97	5.89	5.44	0.139
	Apr-11[a]	3.5	0.6	399	17.65	5.74	5.69	0.136
		8.5	1.5	252	17.77	5.25	5.92	0.135
		11	1.9	59.6	17.78	5.36	5.95	0.134
		15	2.6	40.5	17.86	5.46	5.96	0.135
		17	3.0	27.3	17.85	5.43	5.97	0.135

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		20	3.5	21.8	17.88	5.45	5.92	0.137
		23	4.0	13.7	17.95	5.44	5.95	0.136
		25	4.4	14.4	17.99	5.41	5.83	0.135
		27.5	4.8	11.8	17.98	5.37	5.92	0.136
		28.5	5.0	13.1	17.99	5.38	5.93	0.137
		29.5	5.1	9.44	17.97	5.33	5.94	0.137
	Oct-11	Not sampled due to access restrictions						
	Apr-12	1.5	0.3	168	17.4	5.08	1.62	0.152
		2	0.4	144	17.52	5.32	3.34	0.137
		3	0.6	96	17.58	5.47	3.64	0.134
		4	0.8	98.7	17.63	5.54	3.76	0.134
		5	1.0	113	17.65	5.58	3.82	0.133
		6	1.2	76.5	17.66	5.59	3.86	0.132
		7	1.4	56.9	17.69	5.59	3.84	0.132
		8	1.6	49.8	17.71	5.62	3.86	0.132
		9	1.8	48.7	17.69	5.59	3.87	0.131
		10	2.0	24.2	17.77	5.63	3.89	0.130
		11	2.2	19.5	17.75	5.6	3.88	0.134
		12	2.3	8.9	17.79	5.66	3.89	0.131
		13	2.5	9.68	17.79	5.59	3.86	0.131
		14	2.7	6.88	17.85	5.67	3.91	0.131
		15	2.9	4.59	17.8	5.66	3.93	0.132
		16	3.1	3.56	17.86	5.65	3.91	0.132
	Oct-12	0.75	0.2	340	18.17	6.12	2.16	0.17
		1.5	0.3	104	18.15	5.89	4.26	0.141
		3	0.6	57	18.13	5.86	4.83	0.137
		5	1.1	31.9	18.22	5.85	5.01	0.137
		6.5	1.4	34.6	18.22	5.86	5.12	0.136
		7.5	1.6	32.9	18.31	5.87	5.17	0.135
		8.5	1.8	30.2	18.31	5.9	5.19	0.135
		9.5	2.0	9.5	18.29	5.91	5.21	0.135
		10.5	2.2	11.7	18.23	5.9	5.22	0.136
		11.5	2.4	6.52	18.23	5.89	5.2	0.135
		12.5	2.6	7.01	18.21	5.88	5.22	0.135
		13.5	2.9	6.79	18.26	5.86	5.25	0.135
		14.5	3.1	6.96	18.26	5.86	5.24	0.135
MW-14	May-02	3	2.6	999	22.9 C	6.50	3.82	0.539
		6	5.1	747	23.7 C	6.39	3.68	0.565
		9	7.7	234	23.8 C	6.38	3.56	0.578
	Sep-03[b]	2 [d]	1.7	657	20.3 C	6.64	4.84	0.291
		4 [d]	3.4	449	21.0 C	6.67	7.49	0.221
		5 [d]	4.3	299	22.0 C	6.86	8.90	0.229
	May-04	0.5	1.2	8	21.61 C	6.14	6.79	0.185
	Jul-06	0.25	0.2	85.2	21.77 C	6.58	7.59	0.013
		0.5	0.4	303	20.08 C	6.50	3.80	0.134
		1.5	5.7	200	20.53 C	6.66	3.18	0.137
		1.75	7.0	156b	20.11 C	6.54	3.20	0.141
	Apr-07	not sampled due to insufficient water in the well						
	Oct-07	dry						
	Apr-08	dry						
	Oct-08	dry						
	Apr-09	dry						
	Oct-09	dry						
	Apr-10	0.5	0.9	730	18.49	6.4	2.27	0.156
		1.25	2.4	1059	18.76	6.25	2.15	0.117
		1.75	3.3	956	18.85	6.1	2.05	0.11
		2.25	4.2	813	18.54	6.02	2.04	0.113
	Oct-10	0	0.0	984	18.40	5.58	5.70	0.112
		0.7	1.5	254	18.22	5.42	5.92	0.097
		1.35	2.9	58.7	18.91	5.51	4.29	0.098
		2.15	4.6	49.8	19.63	5.52	4.14	0.097
		2.25	4.8	46.0	19.66	5.52	4.11	0.097
		2.35	5.0	46.5	19.71	5.53	4.04	0.098
	Apr-11	0.2	1.0	460	22.84	5.95	7.30	0.163
		0.4	2.0	510	21.05	5.96	6.49	0.121
		0.5	2.5	515	20.43	6.06	6.29	0.121
	Oct-11	not sampled due to insufficient water in the well						
	Oct-12	Not sampled due to insufficient water						
MW-14b	Jan-08	22	5.6	128	20.52 C	10.76	4.68	4.19
		24	6.2	140	20.52 C	10.74	4.4	4.18
		28	7.2	22	20.52 C	10.71	3.89	4.19
		29	7.4	13.5	20.52 C	10.71	3.84	4.2
		30	7.7	6.1	20.51 C	10.71	3.85	4.2
	Apr-08a	0	0.0	20.6	20.3 C	8.19	4.92	0.2
		0.3	0.1	13.7	19.51 C	8.32	2.35	0.204
		0.6	0.1	12.8	19.41 C	8.27	2.36	0.205
		1	0.2	11.5	19.57 C	8.25	2.4	0.204
		1.25	0.3	7.28	19.65 C	8.25	2.47	0.203
	Oct-08	0.05	0.0	28.9	19.78 C	8.47	3.32	0.244
		0.2	0.0	24.3	19.82 C	8.3	2.03	0.225

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-14b		0.3	0.1	19.5	19.95 C	8.15	1.9	0.219
		0.35	0.1	14.4	20.49 C	8.02	1.43	0.211
		0.5	0.1	9.23	20.77 C	7.51	1.34	0.203
		0.7	0.2	5.75	20.78 C	7.46	1.38	0.202
	Apr-09	0	0.0	36.52	17.44 C	10.33	2.17	0.413
		0.1	0.0	12.8	17.37 C	10.33	1.83	0.409
		0.45	0.1	7.68	18.51 C	10.34	0.83	0.390
		0.7	0.2	7.34	18.64 C	10.28	0.53	0.389
		0.85	0.2	5.61	18.45 C	10.28	0.50	0.389
		0.95	0.2	5.21	18.23 C	10.28	0.54	0.389
		1.05	0.2	4.82	17.89 C	10.27	0.63	0.389
		1.1	0.2	3.62	18.09 C	10.27	0.69	0.389
		1.15	0.3	3.6	18.08 C	10.28	0.68	0.390
		1.15	0.3	3.18	17.79 C	10.28	0.70	0.390
	Oct-09	0.25	0.0		18.65 C	9.15	0.93	0.254
		0.5	0.1		19.13 C	9.34	0.85	0.249
		0.75	0.1	20.08	19.51 C	9.25	0.86	0.244
		1	0.1		19.73 C	9.19	0.90	0.239
		1.25	0.1	7.1	19.71 C	9.21	0.80	0.239
	Apr-10	0.2	0.0	42.9	21.85	7.38	1.03	0.234
		0.4	0.1	39	20.47	7.28	0.48	0.228
		0.6	0.1	22.7	19.98	7.12	0.40	0.224
		0.8	0.2	17.1	20.22	7.06	0.39	0.222
		1	0.2	13.5	20.21	7.02	0.40	0.221
		1.15	0.2	8.95	20.29	6.96	0.39	0.221
		1.3	0.2	7.56	20.28	6.93	0.39	0.221
		1.45	0.2	7.41	20.28	6.99	0.43	0.221
	Oct-10	0	0.0	31.6	20.91	6.84	8.86	0.200
		0.25	0.0	25.3	20.23	6.76	1.86	0.197
		0.4	0.1	15.2	20.08	6.69	1.24	0.191
		0.55	0.1	8.20	20.08	6.66	1.05	0.188
		0.7	0.1	7.17	20.08	6.69	0.96	0.189
	Apr-11[a]	0.25	0.1	31.6	20.35	7.35	7.72	0.246
		0.65	0.1	30.9	20.22	6.77	2.79	0.237
		0.95	0.2	25.9	20.54	6.96	2.15	0.225
		1.25	0.3	13.6	20.45	7.16	2.20	0.216
		1.55	0.3	9.53	20.26	7.91	2.19	0.214
		1.85	0.4	30.4	20.26	8.41	2.24	0.208
		2.15	0.4	13.8	20.41	8.35	2.19	0.214
		2.3	0.5	8.56	20.36	8.40	2.21	0.212
		2.45	0.5	9.21	20.44	8.40	2.23	0.212
	Oct-11	0.25	0.1	60.9	19.23	7.65	0.93	0.238
		0.5	0.1	32.7	19.82	7.40	1.05	0.221
		1	0.2	5.83	20.13	7.26	0.67	0.218
		2.25	0.5	5.30	20.11	7.21	0.86	0.220
		3	0.6	4.14	20.38	7.35	1.20	0.218
		3.75	0.8	NA	20.49	7.24	1.01	0.212
		3.75	0.8	18.1	19.20	7.00	1.27	0.218
		4.75	1.0	13.3	20.10	6.97	3.24	0.204
		5.75	1.2	24.8	19.57	6.63	6.68	0.188
		7.5	1.6	28.9	19.52	6.65	7.14	0.189
		8.75	1.9	9.76	19.60	6.97	2.32	0.234
		10.5	2.2	8.15	19.86	7.31	1.40	0.246
		11	2.3	7.18	20.34	7.36	1.50	0.245
		11.5	2.4	6.10	20.67	7.46	1.25	0.248
		12	2.6	6.45	20.73	7.50	1.31	0.247
		12.5	2.7	3.18	20.70	7.48	1.40	0.246
	Apr-12	0.75	0.2	114	20.02	7.97	0.44	0.250
		1.75	0.4	44.4	20.73	7.95	0.46	0.230
		2.75	0.7	15	20.36	9.35	2.14	0.187
		3.75	0.9	11.6	20.70	8.95	3.01	0.178
		4.75	1.2	16	20.72	9.28	2.82	0.179
		5	1.3	6.85	20.20	7.73	1.18	0.200
		5.75	1.4	5.19	20.43	7.58	0.61	0.229
		6	1.5	3.24	20.42	7.70	0.50	0.234
		6.5	1.6	32.4	20.15	7.76	0.50	0.242
		7	1.8	19	21.35	8.08	0.35	0.247
		8.5	2.1	101.5	21.13	8.08	0.35	0.247
		9	2.3	87.5	21.39	8.36	0.22	0.246
		9.5	2.4	100.9	22.03	8.38	0.18	0.248
		9.75	2.4	79.9	21.20	8.33	0.94	0.244
	Oct-12	0.13	0.0	–	19.38	8.97	5.85	0.236
		0.79	0.2	12.7	19.30	8.21	1.33	0.234
		1.59	0.4	14.8	19.29	8.14	0.60	0.230
		2.64	0.7	4.84	19.31	9.16	1.01	0.212
		3.70	1.0	2.87	19.30	9.57	2.62	0.210
		4.29	1.1	3.13	19.25	9.66	3.32	0.211
		4.82	1.2	2.8	19.37	9.60	3.94	0.210
		5.35	1.4	2.68	19.41	9.31	3.45	0.207
		5.75	1.5	2.67	19.68	8.80	4.69	0.209

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		6.01	1.5	3.37	19.78	8.33	1.58	0.216
		6.27	1.6	–	19.80	7.97	4.34	0.220
		6.67	1.7	2.31	20.09	7.85	3.69	0.225
		6.99	1.8	2.56	20.14	7.93	3.60	0.231
		7.30	1.9	–	20.33	7.98	2.53	0.233
		7.59	2.0	–	20.32	8.00	1.64	0.236
		7.73	2.0	5.57	20.52	8.02	1.58	0.236
		7.86	2.0	–	20.64	8.05	1.71	0.237
	13-Apr	0.00	0.00	10.50	16.41	5.20	6.62	0.239
		0.30	0.08	7.81	17.66	8.38	1.58	0.214
		1.50	0.39	9.10	18.61	8.31	3.34	0.218
		2.00	0.51	8.96	18.61	8.17	3.99	0.206
		2.50	0.64	9.14	18.60	8.46	4.61	0.172
		2.80	0.72	6.00	18.63	8.76	5.22	0.150
		3.00	0.77	5.05	18.65	8.76	5.17	1.490
		3.50	0.90	5.00	18.64	8.60	4.98	0.152
		4.00	1.03	5.96	18.66	8.62	4.90	0.153
MW-15	May-02 through Oct-12			dry				
MW-16	May-02	3	2.3	999	23.1 C	6.89	7.64	0.119
		6	4.6	999	22.6 C	6.27	7.84	0.112
		9	6.9	999	22.9 C	6.21	7.27	0.102
	Sept-03 through Oct-12			dry				
MW-17	Sep-03	15	10	> 999	24.1 C	6.41	10.48	0.104
	(no sample)	25	16.7	> 999				
	Sep-03	2	1.3	293	22.1 C	6.37	9.17	0.103
		4	2.7	153	22.1 C	6.30	8.57	0.100
		6	4.0	40.1	25.9 C	6.26	8.18	0.101
		7	4.7	8.9	26.3 C	6.24	8.23	0.101
	May-04	0.1	0.1	65.4	22.03 C	6.02	8.62	0.094
		0.5	0.4	31.4	23.41 C	5.69	7.09	0.094
		0.75	0.7	16.3	24.76 C	5.59	6.70	0.092
		1	0.9	10.6	26.2 C	5.61	6.57	0.093
		1.2	1.1	8.9	26.47 C	5.62	6.03	0.093
		1.5	1.3	7.3	26.25 C	5.68	6.46	0.093
	Jul-06	0.8	0.5	258	21.13 C	5.99	0.57	0.071
		3	2.0	822	21.15 C	6.01	0.70	0.072
		4	2.7	31	23.34 C	6.30	1.22	0.076
		4.5	3.0	10	22.91 C	6.24	1.19	0.077
	Apr-07	0.4	0.8	134.2	20.46 C	6.19	3.79	0.141
		0.8	1.5	92.1	20.49 C	6.12	3.79	0.141
		1.2	2.3	44.8	20.53 C	6.15	3.99	0.141
		1.5	2.9	19.8	20.60 C	6.13	4.15	0.141
		6.4	12.3	58.4	20.59 C	6.12	4.16	0.141
		10.2	19.6	52.3	19.37 C	6.24	4.08	0.181
		12.5	24.0	8.5	19.39 C	6.23	4.05	0.181
	Oct-07[d]	0.2	1.0	above range	19.02 C	5.30	5.93	0.127
		0.4	2.0	972	19.12 C	5.67	8.06	0.070
		0.6	3.0	1354	19.1 C	5.61	7.39	0.107
		0.8	4.0	1446	18.7 C	5.72	7.18	0.079
		1	5.0	1287	18.42 C	5.66	8.14	0.062
	Apr-08[a]	0	0.0	293	18.46 C	5.86	4.22	0.167
		0.05	0.1	255	18.46 C	5.94	4.08	0.143
		0.1	0.2	233	18.26 C	5.94	4.25	0.139
		0.14	0.3	196	18.11 C	5.93	4.59	0.136
		0.18	0.4	144	18.1 C	5.93	4.68	0.135
		0.22	0.5	86.6	18.09 C	5.94	4.83	0.135
		0.26	0.6	88.5	18.12 C	5.94	5.16	0.132
		0.3	0.7	83.5	18.17 C	5.94	5.24	0.131
		0.34	0.8	85.2	18.15 C	5.94	5.16	0.130
		0.38	0.9	81.5	17.98 C	5.91	5.25	0.128
		0.425	1.0	75.3	18.01 C	5.91	5.59	0.127
		0.475	1.1	85.3	17.94 C	5.94	5.58	0.127
		0.525	1.3	80.3	17.9 C	5.95	5.54	0.127
		0.575	1.4	79.2	17.73 C	5.89	5.71	0.125
		0.633	1.5	65.8	17.67 C	5.89	5.38	0.125
		0.7	1.7	55.8	17.72 C	5.90	5.65	0.126
		0.76	1.8	74.2	17.85 C	5.93	5.48	0.125
		0.9	2.1	78.8	17.96 C	5.93	5.59	0.125
		1	2.4	68.1	18.03 C	5.92	5.37	0.125
		1.06	2.5	74.2	17.91 C	5.93	5.43	0.124
		1.133	2.7	73.5	17.69 C	5.91	5.47	0.125
		1.2	2.9	72.1	17.63 C	5.90	5.62	0.125
		1.23	2.9	68.8	17.6 C	5.92	5.27	0.124
		1.26	3.0	69.2	17.56 C	5.91	5.61	0.125
		1.3	3.1	83.6	17.5 C	5.90	5.52	0.125
	Oct-08	Used bailer, not enough water for water quality or to collect sample.						
	Apr-09[a]	0	0.0	232	18.52 C	6.05	6.78	0.132
		0.15	0.2	121	18.58 C	6.02	9.22	0.129
		0.35	0.4	72.2	18.58 C	5.95	9.02	0.125
		0.45	0.5	54.1	18.60 C	5.91	8.82	0.120

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-17		0.65	0.7	36.6	18.64 C	5.90	8.71	0.117
		0.85	1.0	34.2	18.60 C	5.89	8.62	0.117
		1.1	1.3	43.6	18.55 C	6.04	8.55	0.116
		1.2	1.4	45.2	18.48 C	5.93	8.44	0.117
		1.3	1.5	39.8	18.60 C	5.63	8.41	0.119
		1.45	1.6	41.9	18.69 C	5.98	8.39	0.118
		1.85	2.1	40.3	18.75 C	6.06	8.44	0.118
		2	2.3	41.3	18.74 C	5.84	8.35	0.119
		2.25	2.6	43.5	18.72 C	5.77	8.27	0.118
		2.35	2.7	42.7	18.71 C	5.76	8.30	0.118
		2.5	2.8	47.9	18.71 C	5.76	8.33	0.119
		2.65	3.0	44.2	18.72 C	5.77	8.32	0.119
	Oct-09[a]	0.5	0.3	102	19.1 C	5.00	7.29	0.125
		0.9	0.6	140	18.59 C	5.66	7.16	0.125
		1	0.7	602	18.68 C	5.80	7.70	0.125
		1.3	0.9	390	19.2 C	5.75	7.50	0.124
		1.8	1.2	284	19.22 C	5.74	7.42	0.123
		2.1	1.4	283	19.18 C	5.73	7.37	0.124
		2.25	1.5	212	19.19 C	5.73	7.34	0.124
		2.45	1.6	122	19.24 C	5.72	7.35	0.125
		2.8	1.9	124	19.31 C	5.72	7.33	0.124
		3.1	2.1	80.3	19.46 C	5.70	7.39	0.124
		3.75	2.5	124	19.48 C	5.69	7.40	0.124
		4.25	2.8	65.6	19.48 C	5.69	7.41	0.124
		5.1	3.4	93.1	19.48 C	5.70	7.36	0.125
		5.6	3.7	78.4	19.49 C	5.69	7.33	0.125
		6.2	4.1	62.5	19.57 C	5.71	7.31	0.125
		6.6	4.4	58.4	19.63 C	5.72	7.31	0.126
		6.95	4.6	57.2	19.63 C	5.71	7.26	0.126
		7.2	4.8	67.7	19.77 C	5.73	7.24	0.126
		7.5	5.0	74.9	19.85 C	5.76	7.27	0.126
	Apr-10[a]	0.2	0.1	1249	21.21	5.76	3.68	0.131
		0.35	0.2	612	20.38	5.52	3.24	0.130
		0.5	0.3	424	19.84	5.48	3.44	0.128
		0.7	0.5	324	19.76	5.46	3.47	0.128
		0.9	0.6	246	19.64	5.46	3.49	0.128
		1.25	0.9	198	19.52	5.43	3.50	0.127
		1.75	1.2	167	19.44	5.40	3.48	0.128
		2.25	1.5	-	19.51	5.43	3.26	0.128
		2.75	1.9	137	19.55	5.45	3.48	0.129
		3.25	2.2	115	19.38	5.43	3.52	0.129
		3.75	2.6	89.7	19.36	5.42	3.53	0.128
		4	2.7	79.2	19.36	5.42	3.51	0.129
		4.25	2.9	79.5	19.34	5.42	3.52	0.129
		4.5	3.1	77.8	19.37	5.42	3.52	0.130
	Oct-10	0	0.0	ADL	21.21	6.25	5.85	0.143
		2.15	2.1	175	20.24	5.25	5.80	0.134
		4.65	4.6	63.9	19.72	5.51	5.85	0.134
		4.9	4.9	98.7	19.7	5.51	5.82	0.134
		5.15	5.1	87.4	19.7	5.52	5.83	0.133
	Apr-11[a]	0.25	0.2	702	19.44	5.53	7.30	0.140
		0.525	0.5	380	19.21	4.99	6.39	0.128
		0.775	0.7	230	19.17	5.55	6.22	0.127
		1.025	0.9	126	19.15	5.65	6.28	0.127
		1.275	1.1	89.7	19.15	5.76	6.29	0.128
		1.525	1.3	76.8	19.13	5.77	6.30	0.129
		1.775	1.5	67.4	19.05	5.78	6.52	0.129
		2.025	1.8	53.5	19.05	5.78	6.49	0.129
		2.275	2.0	51.1	19.07	5.80	6.56	0.130
		2.525	2.2	42.6	19.17	5.82	6.55	0.130
		2.775	2.4	42.4	19.28	5.80	6.55	0.131
		3.025	2.6	29.4	19.4	5.80	6.57	0.130
		3.6	3.1	31.3	19.35	5.82	6.69	0.128
		4.2	3.7	25.7	19.46	5.80	6.58	0.129
		4.8	4.2	29.7	19.55	5.83	6.66	0.131
		5.4	4.7	29.1	19.61	5.82	6.70	0.130
		5.7	5.0	33.5	19.53	5.82	6.70	0.131
		6	5.2	29.7	19.58	5.83	6.71	0.131
	Oct-11	0.2	0.5	>1000	19.00	6.11	9.35	0.134
		0.4	1.0	589	19.08	6.17	9.66	0.135
		0.5	1.2	853	19.22	6.18	9.92	0.133
		0.6	1.4	573	19.24	6.16	10.02	0.134
		0.7	1.7	316	19.35	6.17	10.50	0.133
		0.8	1.9	224	19.15	6.15	10.40	0.132
		0.9	2.1	165	19.33	6.15	10.41	0.133
		1	2.4	112	19.21	6.15	10.64	0.132
		1.1	2.6	89.9	19.20	6.11	10.55	0.131
		1.2	2.9	76.6	19.09	6.10	10.54	0.130
		1.3	3.1	72.1	18.88	6.09	10.67	0.132
	Apr-12	0.1	0.1	>1000	19.31	5.02	6.4	0.149

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		0.15	0.2	242	19.34	5.04	5.95	0.141
		0.2	0.3	138	19.37	5.27	6.16	0.139
		0.33	0.5	76.3	19.29	5.46	6.14	0.136
		0.4	0.6	60.4	19.27	5.51	6.27	0.135
		0.5	0.7	45.8	19.34	5.6	6.24	0.135
		0.6	0.9	35.4	19.34	5.66	6.24	0.134
		0.7	1.0	43.7	19.35	5.68	6.21	0.134
		0.8	1.2	41.4	19.36	5.69	6.23	0.135
		0.9	1.3	40.1	19.40	5.71	6.24	0.133
		1	1.4	44.2	19.39	5.75	6.25	0.135
		1.1	1.6	56.1	19.42	5.79	6.25	0.133
		1.2	1.7	51.3	19.38	5.89	6.28	0.133
		1.3	1.9	51.2	19.47	5.78	6.22	0.134
		1.4	2.0	51.5	19.48	5.84	6.29	0.133
		1.5	2.2	53.3	19.55	5.88	6.22	0.134
		1.6	2.3	50.2	19.60	5.88	6.18	0.133
		1.7	2.5	51.6	19.55	5.91	6.25	0.133
		1.8	2.6	52.8	19.61	5.91	6.21	0.133
		1.9	2.7	51.1	19.62	5.9	6.23	0.133
		2	2.9	51.6	19.58	5.91	6.28	0.135
		2.1	3.0	52.4	19.54	5.9	6.25	0.134
	Oct-12	Not sampled due to insufficient water						
	Apr-13	0	0.00	550	20.00	5.38		
		0.1	0.14	225	19.63	5.64		
		0.5	0.72	65	19.79	5.86		
		1.0	1.45	29.1	19.02	5.83		
		2.0	2.89	30.3	20.00	5.85		
		2.5	3.61	27.5	20.15	5.84		
		2.6	3.76	20.7	20.00	5.82		
		2.7	3.90	15.5	20.02	5.75		
		2.8	4.05	19	20.01	5.73		
		2.9	4.19	22.3	19.97	5.73		
MW-18	Jul-06	2.5	1.7	>999	30.38 C	8.69	1.80	0.522
		5	3.3	> 999	26.21 C	8.58	1.67	0.436
		7.5	5.0	814	26.18 C	8.61	1.64	0.431
		10	6.7	628	26.19 C	8.60	1.65	0.434
		12.5	8.3	405	26.22 C	8.61	1.63	0.430
		15	10.0	153	26.21 C	8.62	1.62	0.432
		25	22.1	62.1	26.21 C	8.63	1.60	0.431
	Apr-07	5	1.0	4.43	20.62 C	7.59	0.57	0.877
		10	2.1	9.6	21.02 C	7.90	1.03	1.212
		15	3.1	9.4	21.08 C	7.85	0.96	1.201
	Oct-07	1.5	0.3	24	20.65 C	7.72	0.84	0.885
		2	0.4	20	20.86 C	7.67	0.79	0.851
		2.5	0.5	17	20.74 C	7.67	0.71	0.861
		3	0.6	13.1	21.18 C	7.67	0.73	0.840
		4	0.8	10.2	20.73 C	7.68	0.69	0.836
		5	1.0	9	21.29 C	7.67	0.80	0.832
	Apr-08[a]	0.5	0.1	164	22.49 C	7.88	0.58	1.092
		1.5	0.3	71.8	22.43 C	7.95	0.46	1.048
		2.5	0.5	28.2	24.31 C	7.95	0.32	0.935
		3.5	0.7	101	23.36 C	7.93	0.39	0.878
		4.5	0.9	50.1	23.42 C	7.95	0.40	0.873
		5.25	1.0	16.3	24.03 C	7.95	0.35	0.860
		5.75	1.1	21.7	25.04 C	7.95	0.51	0.856
		5.95	1.2	16.8	24.47 C	7.92	0.50	0.837
		6	1.2	12.6	25.2 C	7.94	0.56	0.841
		6.1	1.2	9.1	25.57 C	7.95	0.57	0.842
	Oct-08	0.5	0.1	131	20.81 C	8.68	0.74	0.992
		1.5	0.3	50.3	21.08 C	8.53	0.66	0.844
		2	0.4	46.1	21.19 C	8.33	0.96	0.841
		2.25	0.4	42.9	21.04 C	8.38	0.62	0.854
		3	0.6	26.7	21.56 C	8.39	0.63	0.852
		3.25	0.6	26.1	21.63 C	8.32	0.69	0.830
		3.5	0.7	19.5	21.34 C	8.27	0.76	0.826
		4	0.8	30.3	21.55 C	8.25	0.79	0.819
		4.5	0.9	26.3	22.06 C	7.96	0.98	0.685
		4.75	0.9	15.4	22.30 C	7.87	1.17	0.625
		5	1.0	11.4	22.13 C	7.94	1.14	0.641
		5.25	1.0	16.1	21.81 C	8.02	1.05	0.663
		5.5	1.1	15.7	21.43 C	8.01	1.08	0.664
	Oct-09	5.75	1.1	15.4	21.24 C	7.98	1.09	0.665
		6	1.2	14.2	21.05 C	7.93	1.08	0.669
		6.25	1.2	11.8	20.9 C	7.91	1.02	0.675
		6.5	1.3	11	20.64 C	7.88	1.06	0.677
		6.75	1.3	9.68	21.44 C	7.94	0.95	0.706
	Apr-09[a]	0.1	0.0	196	19.83 C	7.53	1.68	0.842
		0.3	0.1	81.8	20.09 C	7.49	1.33	0.843
		0.5	0.2	36.2	20.36 C	7.45	1.90	0.798
		0.65	0.2	29.6	20.47 C	7.44	1.98	0.781

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		0.75	0.3	25.2	20.27 C	7.44	2.35	0.761
		0.9	0.3	17.3	20.46 C	7.44	2.68	0.720
		1.3	0.5	29.2	20.47 C	7.45	3.16	0.673
		1.7	0.6	145	20.82 C	7.49	2.84	0.707
		2.3	0.9	128	20.96 C	7.59	1.76	0.850
		2.7	1.0	46.7	22.27 C	7.53	2.47	0.718
		3.3	1.3	52.6	21.71 C	7.47	2.30	0.735
		3.9	1.5	48.8	22.06 C	7.48	1.68	0.766
		4.6	1.8	32.6	21.65 C	7.48	1.87	0.755
		5.1	1.9	33.9	20.89 C	7.49	1.85	0.770
		5.3	2.0	32.5	21.07 C	7.50	1.76	0.797
		5.5	2.1	39.7	21.02 C	7.53	1.04	0.813
		5.6	2.1	18.2	20.87 C	7.54	1.34	0.813
		5.7	2.2	12.4	20.67 C	7.54	1.48	0.813
		5.8	2.2	9.44	21.22 C	7.54	1.19	0.821
MW-19	Jan-08	0.5	0.1	999	14.36 C	9.50	0.01	1.420
		2.5	0.6	827	18.74 C	8.94	0.01	1.430
		4	1.0	704	18.68 C	7.03	0.01	1.480
		6	1.5	221	18.65 C	7.04	0.03	1.460
		9	2.3	18.75	18.65 C	7.05	0.02	1.460
		14	3.6	8.01	18.65 C	7.05	0.02	1.450
	Apr-08	0	0.0	186	22.8 C	6.12	1.40	0.755
		0.25	0.1	126	21.73 C	6.08	1.11	0.747
		0.3	0.2	73.3	21.69 C	6.09	0.81	0.735
		0.4	0.2	54.3	21.65 C	6.11	0.63	0.726
		0.6	0.3	58.1	21.44 C	6.12	0.51	0.711
		1	0.5	32.5	21.27 C	6.06	0.38	0.680
		1.25	0.6	16.8	21.17 C	6.00	0.33	0.584
		1.7	0.9	10.7	21.09 C	6.05	0.25	0.477
		2	1.0	7.4	21.22 C	6.07	0.18	0.425
	Oct-08	0.15	0.1	180	19.32 C	6.96	1.33	0.771
		0.4	0.2	122	19.76 C	6.96	0.80	0.768
		0.8	0.5	55.2	19.96 C	6.89	0.70	0.765
		1.15	0.7	34.6	20.03 C	6.80	0.65	0.766
		1.5	0.9	12.4	20.18 C	6.84	0.60	0.766
		1.9	1.2	6.58	20.09 C	6.73	0.64	0.765
	Apr-09	0	0.0	27.1	21.05 C	4.85	2.15	0.241
		0.05	0.0	18.3	21.27 C	4.72	4.26	0.241
		0.15	0.1	5.36	21.07 C	4.68	2.40	0.240
		0.25	0.1	4.06	21.26 C	4.64	2.75	0.235
		0.4	0.2	3.79	21.35 C	4.63	3.79	0.231
		0.5	0.3	3.21	21.29 C	4.67	3.21	0.225
		0.65	0.3	2.46	21.31 C	4.68	2.46	0.218
		0.75	0.4	2.31	21.14 C	4.70	2.31	0.214
		0.9	0.5	1.97	21.17 C	4.71	1.97	0.211
		1.05	0.5	1.51	21.16 C	4.75	1.51	0.210
		1.2	0.6	1.46	20.96 C	4.75	1.46	0.207
		1.3	0.7	1.45	21.08 C	4.75	1.45	0.204
		1.35	0.7	1.4	21.18 C	4.75	1.40	0.203
		1.4	0.7	1.39	21.2 C	4.76	1.39	0.201
		1.45	0.8	1.4	21.13 C	4.72	1.40	0.199
MW-19	Oct-09	0.25	0.1	32.3	20.58 C	5.23	1.15	0.217
		0.75	0.4	18.4	20.66 C	5.11	0.97	0.197
		1.2	0.6	9.48	20.69 C	5.14	0.98	0.191
		1.4	0.7	5.52	20.68 C	5.24	0.99	0.195
		2.75	1.4	4.21	20.67 C	5.40	0.92	0.207
		3.1	1.6	3.85	20.65 C	5.47	0.88	0.212
		3.25	1.7	5.24	20.63 C	5.48	0.86	0.217
		3.5	1.8	4.96	20.55 C	5.52	0.79	0.222
		3.9	2.0	6.62	20.47 C	5.57	0.74	0.226
		4.25	2.2	5.98	20.53 C	5.58	0.69	0.227
	Apr-10	0.2	0.1	60.3	20.66	5.48	0.61	0.193
		0.4	0.2	47.7	20.74	5.53	0.47	0.193
		0.7	0.4	19	20.76	5.56	0.61	0.190
		1	0.5	12.7	20.78	5.59	0.57	0.193
		1.35	0.7	8.45	20.78	5.61	0.51	0.196
		1.7	0.9	7.9	20.83	5.63	0.44	0.201
		2.1	1.1	4.57	20.8	5.63	0.40	0.202
		2.8	1.5	4.71	20.85	5.66	0.38	0.205
		3.2	1.7	3.24	20.8	5.67	0.37	0.207
		3.8	2.0	3.4	20.85	5.69	0.37	0.210
		4.1	2.2	2.42	20.85	5.71	0.37	0.210
		4.7	2.5	2.1	20.79	5.71	0.37	0.209
	Oct-10	0	0.0	52.7	23.00	6.34	2.31	0.274
		1.85	1.0	4.88	21.17	6.03	0.52	0.298
		5.05	2.7	1.79	21.03	6.14	0.43	0.332
		5.55	3.0	2.20	21.00	6.16	0.43	0.340
		6.05	3.2	2.23	20.97	6.18	0.42	0.344
	Apr-11	0.25	0.1	109	21.02	5.41	1.01	0.188
		0.75	0.4	66.9	20.88	5.24	0.83	0.178

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		1.25	0.6	35.9	20.81	5.23	0.85	0.167
		1.75	0.9	20.2	20.77	5.65	1.15	0.173
		2.25	1.2	12.2	20.76	5.78	1.47	0.179
		2.75	1.4	8.29	20.84	5.84	1.67	0.178
		3.25	1.7	6.22	20.77	5.84	1.76	0.175
		3.75	1.9	5.3	20.85	5.84	1.73	0.174
		4.25	2.2	5.36	20.86	5.83	1.57	0.168
		4.75	2.4	5.2	20.86	5.83	1.62	0.167
		5.25	2.7	4.88	20.88	5.84	1.53	0.165
		5.75	2.9	4.03	20.83	5.81	1.40	0.164
		6.25	3.2	3.67	20.92	5.82	1.40	0.163
	Oct-11[a]	0.15	0.1	58.90	20.87	6.45	0.98	0.609
		0.5	0.3	25.70	20.71	6.44	1.11	0.605
		1	0.5	12.1	20.74	6.41	1.36	0.562
		1.5	0.8	6.75	20.75	6.39	1.26	0.540
		2	1.1	3.97	20.79	6.38	1.23	0.508
		2.5	1.4	2.66	20.74	6.37	1.30	0.478
		3	1.6	2.47	20.85	6.36	1.40	0.458
		3.5	1.9	2.15	20.78	6.35	1.51	0.451
		4	2.2	1.76	20.79	6.35	1.66	0.449
		4.5	2.5	1.57	20.86	6.36	1.82	0.450
		5	2.7	1.96	20.86	6.36	2.00	0.447
		5.25	2.9	2.15	20.83	6.36	2.13	0.446
		5.5	3.0	1.86	20.75	6.36	2.26	0.446
MW-19	Apr-12	0.25	0.1	28	22.01	5.73	0.69	0.238
		0.3	0.2	27.3	22.19	5.83	0.62	0.234
		0.5	0.3	23.5	22.31	5.91	0.55	0.228
		0.75	0.4	22.8	21.83	5.67	0.5	0.215
		1	0.5	21.1	21.64	5.63	0.48	0.218
		1.3	0.7	13.5	21.70	5.81	0.46	0.22
		1.5	0.8	12.1	21.53	5.73	0.45	0.219
		1.75	1.0	7.98	21.50	5.75	0.42	0.221
		2	1.1	6.87	21.47	5.78	0.4	0.225
		2.25	1.2	6.25	21.41	5.87	0.37	0.227
		2.5	1.4	5.89	21.33	5.73	0.33	0.228
		3	1.6	6.31	21.28	5.85	0.31	0.23
		3.25	1.8	6.78	21.15	5.83	0.28	0.229
		3.5	1.9	6.96	21.09	5.84	0.28	0.231
		3.75	2.0	6.41	21.14	5.84	0.26	0.231
		4	2.2	6.12	21.16	5.83	0.24	0.23
		4.25	2.3	6.32	21.29	5.92	0.24	0.231
		4.5	2.4	5.72	21.30	5.97	0.22	0.232
		4.75	2.6	5.12	21.18	5.85	0.22	0.235
		5	2.7	5.56	21.06	5.87	0.21	0.235
		5.25	2.9	6.02	21.03	5.88	0.21	0.236
		5.5	3.0	6.1	20.98	5.87	0.2	0.236
	Oct-12	0.13	0.1	–	22.81	6.57	1.44	0.556
		1.25	0.7	80.1	22.46	6.13	0.38	0.582
		2.5	1.4	–	22.15	5.73	0.29	0.581
		3.75	2.1	–	22.18	6.01	0.28	0.576
		5	2.8	31.4	22.20	6.1	0.25	0.570
		6.25	3.5	–	22.20	6.11	0.23	0.550
		7.5	4.2	17	22.12	6.05	0.41	0.503
		8.75	4.9	–	22.10	6.07	0.25	0.469
		10	5.6	5.98	22.10	6.05	0.23	0.450
		11.25	6.3	–	21.99	6.06	0.2	0.436
		12.5	7.0	2.84	22.07	6.02	0.19	0.426
		13.75	7.7	–	21.99	6.06	0.17	0.420
		15	8.4	1.82	21.99	6.08	0.18	0.415
		16.25	9.1	–	22.00	6.06	0.17	0.413
		17.5	9.8	1.52	21.95	6.1	0.17	0.412
		18.75	10.5	–	21.92	6.05	0.18	0.414
		20	11.2	1.02	21.95	6.08	0.16	0.411
		21.25	11.9	0.98	21.93	6.06	0.17	0.409
	Apr-13	0.00	0.00	116	20.46	5.55	4.07	0.190
		0.50	0.28	20.10	21.03	5.82	3.30	0.159
		1.00	0.56	7.76	21.05	5.93	3.40	0.157
		1.50	0.84	7.49	21.10	5.95	3.67	0.155
		2.00	1.12	6.76	20.98	5.92	3.99	0.152
		3.50	1.95	7.00	21.13	5.99	3.79	0.160
		5.00	2.79	6.02	21.16	5.99	3.87	0.161
		6.50	3.63	6.35	21.17	5.98	4.01	0.157
MW-20	Apr-13	1.50	0.84	94.10	16.41	5.09	3.85	0.172
		2.50	1.39	50.30	16.44	5.05	3.90	0.163
		3.50	1.95	33.10	16.55	5.05	4.01	0.160
		4.50	2.51	23.70	16.53	5.09	4.07	0.159
		5.50	3.07	16.70	16.55	5.09	4.09	0.158
		5.60	3.12	10.48	16.58	5.10	4.11	0.156
		5.11	2.85	9.02	16.59	5.11	4.09	0.157
	Oct-13	0.10	0.06	86.00	16.50	7.35	0.59	0.387

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		2.50	1.39	52.00	16.65	5.82	6.63	0.062
		4.00	2.23	9.78	16.65	5.71	7.07	0.053
		5.00	2.79	8.12	16.67	5.66	7.23	0.050
		5.50	3.07	6.26	16.67	5.64	7.33	0.048
		6.50	3.63	6.31	16.67	5.64	7.39	0.048
	Apr-14	1.50	0.84	<1000	16.51	6.70	1.82	0.493
		2.00	1.12	<1000	16.90	6.24	2.62	0.274
		2.50	1.39	719	17.08	5.69	4.73	0.171
		3.00	1.67	222	17.50	5.12	6.52	0.078
		5.00	2.79	68.1	17.07	5.00	6.86	0.057
		6.00	3.35	54.0	17.10	5.03	6.90	0.055
		7.00	3.90	52.0	16.97	5.03	6.91	0.055
		8.00	4.46	53.9	16.92	5.03	6.91	0.055
	Oct-14	1.00	0.50	127.00	16.26	7.01	2.47	0.220
		2.00	1.00	134.00	16.81	6.00	2.79	0.161
		3.00	1.50	62.70	16.24	5.62	3.43	0.133
		4.00	2.00	38.30	16.48	5.62	3.92	0.133
		5.00	2.50	33.30	16.46	5.55	3.91	0.137
		6.00	3.00	17.04	16.37	5.55	4.17	0.139
		7.00	3.50	13.2	16.15	5.55	4.29	0.134
		8.00	4.00	11	16.11	5.53	4.28	0.136
		9.00	4.50	9.86	16.10	5.53	4.33	0.136
	Apr-15	2.50	1.25	21.9	15.87	5.00	1.66	0.161
		5.00	2.50	10.27	15.90	4.84	1.86	0.166
		7.00	3.50	8.47	15.90	4.91	2.05	0.170
		9.00	4.50	6.16	15.92	4.96	2.15	0.172
		11.00	5.50	3.21	15.94	4.98	1.83	0.173
MW-21	Apr-14	0.50	0.28	153	17.30	6.32	1.91	0.281
		1.75	0.98	159	17.69	6.19	1.61	0.265
		2.50	1.39	180	17.11	6.15	1.56	0.263
		3.00	1.67	89	17.28	6.18	1.53	0.261
		4.00	2.23	63	17.40	6.10	1.40	0.253
		4.40	2.45	50	17.00	6.12	1.58	0.252
		4.60	2.57	59	16.62	6.13	1.87	0.260
		5.00	2.79	35	16.79	6.11	1.93	0.256
		5.25	2.93	28	16.62	6.08	2.08	0.259
		5.75	3.21	16	17.70	6.14	1.62	0.259
		6.50	3.63	10.60	17.92	6.11	1.62	0.259
		6.90	3.85	9.93	17.53	6.11	1.62	0.259
		7.20	4.02	5.23	17.51	6.12	1.62	0.259
	Oct-14	0.00	0.00	>1000	17.71	6.08	6.94	0.267
		1.25	0.38	>1000	18.37	5.97	1.09	0.237
		2.25	0.69	560	18.93	5.90	1.14	0.224
		3.50	1.07	319	18.75	5.88	0.83	0.220
		5.00	1.52	237	19.39	5.86	0.81	0.221
		6.75	2.06	133	19.58	5.88	0.81	0.219
		7.50	2.29	118	20.64	5.90	0.79	0.219
		8.25	2.52	81.4	20.67	5.89	0.80	0.219
		8.60	2.62	>1000	20.95	5.92	0.82	0.218
		10.00	3.05	248	20.46	5.84	0.85	0.211
		11.00	3.35	126	20.06	5.81	0.86	0.212
		12.25	3.73	117	20.27	5.82	0.86	0.211
		13.25	4.04	72.9	20.31	5.79	0.85	0.212
		13.50	4.12	73.6	20.50	5.81	0.85	0.214
		14.00	4.27	78.5	20.55	5.82	0.85	0.210
	Apr-15	0.10	0.03	1024.0	18.76	6.00	3.12	0.248
		0.75	0.23	2151.0	18.57	5.83	0.85	0.237
		1.25	0.38	1134.0	19.00	5.81	0.85	0.225
		1.75	0.53	1238.0	19.35	5.78	0.63	0.219
		2.25	0.69	1437.0	19.16	5.76	0.58	0.218
		3.00	0.91	2188.0	19.02	5.79	0.51	0.217
		4.00	1.22	1123.0	18.81	5.77	0.47	0.218
		5.00	1.52	107.0	18.87	5.84	0.48	0.216
		6.00	1.83	31.0	18.94	5.88	0.59	0.220
		6.50	1.98	38.0	18.92	5.92	1.05	0.217
		7.25	2.21	98.2	18.84	5.89	1.14	0.220
		8.00	2.44	73.0	19.30	5.93	1.46	0.223
		8.50	2.59	55.2	19.31	5.91	1.52	0.228
		9.00	2.74	35.3	18.98	5.88	1.72	0.227
		10.00	3.05	47.0	19.06	5.91	1.96	0.226
		10.50	3.20	60.3	19.03	5.89	2.35	0.227
		11.00	3.35	62.2	19.12	5.89	2.24	0.229
		11.50	3.51	43.5	19.71	5.92	2.24	0.233
		12.00	3.66	40.8	19.32	5.90	2.30	0.230
		12.50	3.81	34.8	19.39	5.91	2.04	0.235
		13.00	3.96	24.7	19.05	5.87	1.66	0.237
		13.50	4.12	32.6	18.92	5.86	1.82	0.231
		14.00	4.27	23.1	18.87	5.87	1.69	0.233
		14.50	4.42	74.7	18.81	5.84	1.70	0.222
		15.00	4.57	106.1	18.91	5.82	1.84	0.221

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
MW-A	Sep-06[d]	2	1.5	380	23.98 C	7.59	2.78	0.927
		3	2.3	120	20.38 C	7.84	2.72	0.925
		5	3.8	68	20.36 C	7.97	4.61	0.901
		6	4.6	34	20.33 C	7.98	4.66	0.908
		>6	well dry					
MW-B	Jul-06	19.8	13.2	114	21.94 C	5.91	9.00	0.049
		20.2	13.5	44.7	21.57 C	5.83	8.43	0.048
		21	14.0	38.7	21.76 C	6.05	7.70	0.051
		21.8	14.5	30	22.97 C	6.24	6.60	0.057
		22	14.7	18	23.90 C	6.24	6.51	0.057
		22.2	14.8	9.1	24.16 C	6.24	6.43	0.057
MW-C	Jul-06	1	0.67	39.6	21.76 C	6.73	3.71	0.286
		2	1.3	34.8	20.81 C	6.62	2.36	0.183
		3	2.0	40.4	20.12 C	6.63	2.37	0.253
		3.5	2.3	33.7	20.51 C	6.61	1.95	0.259
		4	2.7	42	19.99 C	6.61	2.36	0.257
		4.5	3.0	31.6	20.30 C	6.61	2.51	0.253
		5	4.4	30.4	19.97 C	6.61	2.47	0.256
MW-D	Jan-08	2.5	1.6	967	21.49 C	6.72	5.28	1.280
		3.5	2.3	658	21.24 C	6.79	5.62	2.020
		4.5	2.9	104	21.27 C	6.74	5.63	2.180
		4.8	3.1	68	21.33 C	6.75	5.64	2.010
		5.5	3.6	44	21.34 C	6.75	5.64	2.080
OW-72	Apr-07	5	0.5	163	18.02 C	6.07	0.40	0.355
		15	1.5	59.9	18.11 C	6.04	0.24	0.390
		25	2.5	56.7	19.26 C	6.02	0.58	0.980
		28	2.8	22.6	18.91 C	5.99	0.61	0.405
		29	2.9	24.2	18.70 C	6.06	0.80	0.408
		29.5	3.0	16.2	19.16 C	6.02	0.44	0.408
		30	3.0	11.9	19.32 C	6.05	0.43	0.407
		30.5	3.1	9.65	18.76 C	6.05	0.44	0.406
	Oct-07	0.5	0.1	153	18.15 C	6.06	1.01	0.374
		2	0.2	131	19.08 C	5.99	0.42	0.378
		2.4	0.3	83	19.32 C	5.99	0.39	0.380
		3	0.3	49	19.59 C	5.99	0.42	0.384
		3.2	0.4	47	19.68 C	5.99	0.43	0.384
		4	0.4	31	19.66 C	5.99	0.35	0.386
		4.5	0.5	20	19.79 C	5.98	0.27	0.385
		5	0.6	17.4	19.43 C	6.00	0.24	0.386
		5.8	0.6	14.4	19.24 C	5.99	0.24	0.389
		6.5	0.7	11.4	19.83 C	5.99	0.22	0.387
		7.3	0.8	8	19.62 C	6.00	0.21	0.390
	Apr-08	0.5	0.1	384	19.21 C	6.68	2.10	0.183
		1	0.1	231	18.79 C	6.48	1.54	0.183
		1.5	0.2	125	19.54 C	6.40	1.21	0.184
		2	0.2	67.2	19.16 C	6.33	0.77	0.215
		3	0.3	42.3	19.29 C	6.17	0.74	0.238
		4	0.4	50.4	19.35 C	6.12	0.68	0.267
		5	0.5	32.4	19.38 C	6.06	0.53	0.299
		6	0.6	21.1	19.29 C	6.05	0.44	0.322
		7	0.7	15.8	19.22 C	5.97	0.42	0.335
		7.5	0.8	13.3	19.37 C	5.95	0.37	0.342
		8	0.8	7.24	19.26 C	5.94	0.51	0.350
	Oct-08	1.5	0.2	457	18.3 C	7.45	1.61	0.444
		3	0.3	242	18.56 C	7.35	1.56	0.401
		5	0.6	119	18.44 C	7.25	1.21	0.404
		7	0.8	138	18.47 C	7.20	0.98	0.404
		9	1.0	50.5	18.46 C	7.11	0.78	0.408
		11	1.2	46.8	18.41 C	7.06	0.68	0.412
		13	1.4	44.9	18.37 C	6.97	0.62	0.412
		15	1.7	32.4	18.35 C	6.93	0.59	0.413
		17	1.9	31.8	18.36 C	6.90	0.58	0.415
		18	2.0	41.8	18.39 C	6.86	0.54	0.417
		19	2.1	18.3	18.55 C	6.85	0.51	0.418
		20	2.2	15.1	18.49 C	6.78	0.50	0.418
		21	2.3	13.8	18.45 C	6.74	0.48	0.422
		22	2.4	10.4	18.45 C	6.68	0.47	0.423
		23	2.5	8.79	18.46 C	6.68	0.46	0.424
	Apr-09	0.25	0.0	146	17.92	6.39	5.65	0.132
		0.5	0.1	161	18.07 C	6.35	5.02	0.135
		0.75	0.1	221	18.49 C	6.36	4.44	0.136
		1.5	0.2	150	18.67 C	6.34	3.75	0.139
		2	0.2	60.1	19.03 C	6.34	2.81	0.150
		2.5	0.3	41.1	18.86 C	6.29	2.29	0.169
		3.25	0.3	23.6	18.74 C	6.22	1.70	0.198
		4	0.4	17.9	18.72 C	6.16	1.20	0.233
		5	0.5	15.8	18.84 C	6.12	0.94	0.260
		6	0.6	10.8	18.89 C	6.10	0.78	0.283
		7	0.7	7.03	18.96 C	6.07	0.75	0.302
		7.75	0.8	19.8	18.91 C	6.06	0.88	0.318

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		8.5	0.9	18.6	18.97 C	6.04	0.75	0.328
		9.25	1.0	8.03	18.92 C	6.04	0.67	0.334
	Oct-09	0.5	0.1	252	18.69 C	7.95	3.12	0.145
		1	0.1	240	18.4 C	7.04	2.40	0.148
		1.75	0.2	361	18.46 C	6.64	1.72	0.173
		2.5	0.3	162	18.42 C	6.32	1.14	0.218
		3.25	0.3	65.3	18.46 C	6.16	0.89	0.261
		4	0.4	38.5	18.51 C	6.10	0.78	0.283
		5	0.5	33.7	18.57 C	6.11	0.72	0.292
		5.75	0.6	25.3	18.53 C	6.12	0.62	0.307
		6.5	0.7	15.3	18.58 C	6.13	0.47	0.335
		7.25	0.8	11.9	18.55 C	6.14	0.42	0.336
		8	0.8	10.25	18.54 C	6.19	0.46	0.343
		8.75	0.9	41.3	18.53 C	6.19	0.43	0.342
		10	1.0	14.8	18.53 C	6.22	0.41	0.343
		10.75	1.1	10.49	18.53 C	6.27	0.37	0.357
		11.5	1.2	8.62	18.55 C	6.31	0.35	0.362
		12.25	1.3	7.19	18.57 C	6.34	0.33	0.369
OW-72	Apr-10[a]	0.75	0.1	246	18	6.20	0.96	0.106
		2	0.2	182	19.13	6.43	0.44	0.107
		3.25	0.3	71.6	19.36	6.28	0.35	0.163
		4.5	0.4	49.8	19.41	6.18	0.40	0.318
		6	0.6	32.4	19.38	6.16	0.41	0.364
		7.25	0.7	34.4	19.44	6.12	0.40	0.370
		8.5	0.8	16.9	19.46	6.11	0.69	0.394
		9.5	0.9	243	19.55	6.09	0.55	0.390
		11.5	1.1	16.2	19.51	6.06	0.76	0.396
		12.75	1.3	13.8	19.59	6.07	0.78	0.358
		14.25	1.4	4.12	19.25	6.03	0.89	0.407
		16	1.6	12.9	19.2	6.03	1.12	0.416
		16.75	1.7	6.59	19.35	6.02	1.12	0.418
		17.5	1.7	8.71	19.48	6.02	1.09	0.419
	Oct-10	0.75	0.1	149	18.76	6.02	0.21	0.501
		2	0.2	180	19.23	6.04	0.51	0.490
		6.5	0.7	23.9	18.87	6.02	0.59	0.462
		10.25	1.0	13.3	18.82	5.99	0.73	0.454
		11.5	1.2	12.6	18.80	5.98	0.77	0.453
		12.75	1.3	9.44	18.84	5.98	0.79	0.452
	Apr/11[a]	1	0.1	84.9	18.30	5.81	3.33	0.465
		2.5	0.3	70.5	18.85	5.83	3.24	0.459
		3.75	0.4	67.1	19.10	5.83	2.92	0.441
		5.5	0.6	291	19.26	5.83	2.78	0.438
		6.75	0.7	119	19.23	5.82	4.29	0.432
		7.75	0.8	38.7	19.30	5.81	5.27	0.434
		10	1.1	19.9	19.39	5.81	5.51	0.434
		12	1.3	9.54	19.42	5.82	4.66	0.437
		13.5	1.5	6.75	19.47	5.81	4.58	0.436
		14	1.5	5.65	19.51	5.81	4.45	0.436
		14.75	1.6	4.32	19.62	5.82	4.23	0.436
	Oct-11	1	0.1	49.6	18.04	5.64	0.82	0.470
		2	0.2	40.5	18.66	5.98	0.64	0.469
		3	0.3	30.5	18.79	6.01	0.49	0.459
		4	0.4	24.1	18.80	5.96	0.36	0.444
		5	0.5	19.4	18.78	5.98	0.30	0.432
		6	0.7	16.4	18.70	5.96	0.25	0.424
		7.5	0.8	16.1	18.77	6.02	0.24	0.418
		9	1.0	15.3	18.80	6.01	0.22	0.419
		10.5	1.2	12.5	18.83	5.99	0.21	0.422
		12	1.3	9.73	18.75	5.99	0.19	0.423
		13.5	1.5	8.65	18.77	5.96	0.18	0.422
		15	1.6	8.71	18.79	5.97	0.18	0.422
		16.5	1.8	7.81	18.82	5.97	0.17	0.417
		18	2.0	6.95	18.79	5.95	0.16	0.417
		19.5	2.1	6.18	18.77	5.95	0.15	0.417
		21	2.3	5.23	18.84	5.99	0.14	0.419
	Oct-11	22.5	2.5	4.06	18.77	5.98	0.13	0.420
		24	2.6	4.19	18.63	5.96	0.13	0.422
		25.5	2.8	5.30	18.73	5.99	0.13	0.421
		27	3.0	5.09	18.69	5.95	0.12	0.419
		28.5	3.1	4.44	18.71	5.95	0.11	0.422
	Apr-12	2.5	0.3	54.3	18.83	4.82	0.49	0.429
		4	0.4	53.6	18.95	5.61	0.36	0.383
		5	0.5	40.6	19.01	5.83	0.32	0.359
		6	0.7	22.6	19.02	5.83	0.27	0.379
		7.5	0.8	16.6	19.02	5.83	0.22	0.390
		9	1.0	13.2	19.02	5.83	0.19	0.395
		10	1.1	8.25	19.05	5.84	0.17	0.400
		11	1.2	5.67	19.04	5.85	0.16	0.402
		12	1.3	3.93	19.05	5.82	0.15	0.404
		13	1.4	2.76	19.06	5.83	0.14	0.406

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		14	1.5	2.65	19.08	5.86	0.14	0.407
		15.5	1.7	2.29	19.12	5.83	0.13	0.407
		16.5	1.8	2.15	19.13	5.84	0.13	0.408
		17.5	1.9	2.1	18.99	5.79	0.13	0.408
		18.75	2.0	2.04	18.92	5.81	0.12	0.408
		20	2.2	2.02	19.25	5.84	0.12	0.409
		21	2.3	2.12	18.90	5.79	0.12	0.408
		22.5	2.4	2.15	18.96	5.81	0.12	0.409
		23.5	2.5	2.1	19.00	5.84	0.12	0.41
		24.5	2.7	2.05	19.06	5.78	0.11	0.41
		25.5	2.8	2.03	19.25	5.84	0.11	0.411
		26.5	2.9	2.07	19.14	5.83	0.11	0.411
		28	3.0	1.97	19.27	5.87	0.11	0.411
	Oct-12	1	0.1	44.6	20.80	5.86	0.56	0.415
		3.5	0.4	31.6	21.44	5.92	0.41	0.394
		6	0.7	19.6	21.12	5.94	0.35	0.39
		8	0.9	7.42	21.34	5.96	0.23	0.395
		10	1.1	3.26	21.23	5.95	0.2	0.398
		12	1.4	2.04	21.46	5.97	0.21	0.399
		14	1.6	1.53	21.23	5.99	0.2	0.399
		16	1.8	1.47	21.31	6.02	0.2	0.403
		18	2.1	1.49	21.39	6.04	0.15	0.404
		20	2.3	1.51	21.25	6.04	0.17	0.404
		22	2.5	1.38	21.24	6.00	0.17	0.405
		24	2.7	1.3	21.31	6.01	0.14	0.404
		25	2.9	1.36	21.51	5.99	0.15	0.404
		26	3.0	1.42	21.16	6.00	0.12	0.405
	Apr-13	2.50	0.29	69.10	18.98	5.80	0.32	0.319
		5.50	0.63	32.60	19.04	5.77	0.22	0.327
		8.00	0.91	13.20	19.04	5.78	0.17	0.355
		10.50	1.20	7.64	19.15	5.81	0.14	0.367
		12.50	1.43	6.78	19.12	5.82	0.13	0.376
		16.00	1.83	2.92	19.31	5.82	0.11	0.384
		18.00	2.06	2.70	19.27	5.83	0.10	0.387
		21.00	2.40	2.65	19.53	5.85	0.10	0.389
		23.00	2.63	2.01	19.37	5.83	0.09	0.391
		26.00	2.97	2.03	19.55	5.84	0.08	0.393
		28.00	3.20	1.75	19.68	5.85	0.08	0.393
OW-72	Oct-13	2.00	0.23	28.00	19.05	6.22	0.09	245.000
		11.00	1.26	11.00	19.48	6.15	0.06	369.000
		17.00	1.94	10.00	19.76	6.12	0.04	403.000
		20.00	2.29	1.30	19.39	6.13	0.06	376.000
		25.00	2.86	0.83	19.48	6.11	0.03	383.000
		32.00	3.66	0.17	19.39	6.11	0.02	394.000
		35.00	4.00	0.00	19.35	6.10	0.02	396.000
		37.00	4.23	0.00	19.30	6.10	0.01	394.000
		40.00	4.57	0.00	19.30	6.10	0.01	396.000
	Apr-14	4.00	0.46	17.9	17.81	6.13	0.18	0.241
		7.00	0.80	8.60	18.27	6.06	0.20	0.372
		11.00	1.26	3.18	18.19	6.04	0.30	0.389
		15.00	1.71	2.91	18.12	6.03	0.26	0.422
		19.00	2.17	0.72	18.17	6.03	0.22	0.434
		23.00	2.63	0.31	18.05	6.02	0.19	0.443
		27.00	3.09	0.08	18.10	6.02	0.20	0.442
		31.00	3.54	0.03	19.04	6.02	0.18	0.442
OW-72	Oct-14	3.50	0.35	16.66	20.19	6.33	0.64	0.060
		6.00	0.60	10.80	20.14	6.31	0.97	0.061
		9.00	0.90	0.84	20.35	6.03	1.24	0.390
		11.00	1.10	1.32	20.16	6.03	1.01	0.405
		14.00	1.40	0.20	20.34	6.03	0.85	0.424
		18.00	1.80	0.79	20.30	6.02	0.89	0.427
		21.00	2.10	0.75	20.12	6.02	0.75	0.430
		24.00	2.40	0.78	20.18	6.01	0.78	0.433
		27.00	2.71	0.74	20.55	6.02	0.74	0.433
		30.00	3.01	0.77	21.34	6.02	0.77	0.433
OW-72A	Apr-15	2.50	0.25	29.30	18.62	5.64	0.67	0.172
		6.00	0.60	47.00	18.86	5.75	0.42	0.312
		8.00	0.80	37.80	18.71	5.82	0.31	0.369
		10.00	1.00	25.40	18.99	5.70	0.35	0.385
		13.00	1.30	18.00	19.13	5.79	0.29	0.400
		15.00	1.50	12.40	19.17	5.80	0.20	0.417
		17.50	1.75	15.90	19.22	5.81	0.19	0.426
		19.50	1.95	8.63	19.20	5.83	0.19	0.428
		21.50	2.15	5.16	19.16	5.84	0.15	0.436
		23.50	2.35	4.94	19.10	5.85	0.16	0.436
		25.00	2.51	4.39	19.09	5.82	0.15	0.437
		27.00	2.71	3.21	18.99	5.82	0.14	0.439
		30.00	3.01	2.08	19.11	5.86	0.17	0.439
OW-74A	Apr-07	4	0.4	604	17.34 C	5.52	1.16	0.221
		6	0.6	126	17.27 C	5.50	0.54	0.221

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		10	1.0	70.5	17.14 C	5.49	0.44	0.223
		16	1.5	37.4	17.06 C	5.47	0.38	0.224
		24	2.3	15.2	17.10 C	5.53	0.63	0.224
		32	3.0	7.63	17.17 C	5.47	0.48	0.225
	Oct-07[a]	0.4	0.1	1030	17.64 C	5.82	0.87	0.192
		2.1	0.3	154	17.42 C	5.60	0.34	0.220
		4	0.5	173	17.43 C	5.58	0.30	0.222
		5.5	0.7	96.4	17.47 C	5.58	0.27	0.223
		7.8	1.0	128	17.35 C	5.56	0.24	0.222
		10	1.3	96	17.29 C	5.56	0.22	0.223
		12.2	1.6	93	17.33 C	5.57	0.22	0.223
		14.7	1.9	49.5	17.22 C	5.56	0.20	0.223
		16.2	2.1	25	17.41 C	5.58	0.41	0.223
		18	2.3	10.3	17.27 C	5.56	0.27	0.223
		20.5	2.6	23.4	17.38 C	5.55	0.21	0.223
		22.2	2.8	15.5	17.55 C	5.58	0.22	0.223
		24.5	3.1	16.1	17.28 C	5.56	0.20	0.223
		26.3	3.3	12.6	17.43 C	5.56	0.21	0.223
		27.1	3.4	12.2	17.63 C	5.57	0.21	0.223
		28	3.6	10.9	17.34 C	5.55	0.20	0.223
		28.8	3.7	9.3	17.35 C	5.54	0.20	0.223
	Apr-08	1.5	0.2	478	17.33 C	5.47	1.25	0.225
		3.5	0.4	160	17.39 C	5.42	0.66	0.217
		5	0.6	37.1	17.36 C	5.37	0.48	0.223
		7	0.9	30.3	17.39 C	5.35	0.40	0.225
		8.5	1.1	23.1	17.54 C	5.35	0.36	0.227
		10	1.3	20.7	17.53 C	5.33	0.33	0.227
		11	1.4	24.8	17.69 C	5.34	0.31	0.227
		11.5	1.5	27.5	17.82 C	5.39	0.50	0.228
		12.5	1.6	18.6	17.71 C	5.33	0.31	0.227
		13.5	1.7	18.2	17.61 C	5.32	0.29	0.227
		15	1.9	34.3	17.4 C	5.30	0.28	0.227
		16	2.0	19.1	17.44 C	5.32	0.26	0.227
		16.5	2.1	9.56	17.44 C	5.30	0.40	0.227
	Oct-08	0.5	0.1	334	16.75 C	6.98	1.30	0.236
		1	0.1	321	16.90 C	6.52	1.83	0.230
		2.5	0.3	165	16.87 C	6.38	1.55	0.221
		4	0.5	35.8	16.88 C	6.17	1.19	0.224
		5.5	0.7	19.3	16.92 C	6.13	1.00	0.229
		7	0.9	11.3	16.90 C	6.05	0.89	0.232
		8.5	1.1	8.44	16.90 C	6.04	0.85	0.232
	Apr-09[a]	1.5	0.1	256	16.9 C	6.02	7.53	0.078
		5	0.5	114	16.96 C	5.68	4.21	0.158
		7.5	0.7	89.7	16.84 C	5.63	2.81	0.185
		9	0.9	226	16.59 C	5.63	2.17	0.194
		11.25	1.1	180	16.8 C	5.63	2.08	0.194
		12.5	1.2	33.6	16.75 C	5.61	2.66	0.196
		13	1.3	19.8	16.74 C	5.59	1.87	0.205
		13.5	1.3	20.9	16.78 C	5.59	1.69	0.206
		14.25	1.4	17.4	16.53 C	5.60	1.59	0.207
		14.75	1.4	15.2	16.21 C	5.57	1.54	0.208
		15.25	1.5	12.9	16.12 C	5.58	1.56	0.209
		15.75	1.5	13.8	16.14 C	5.59	1.80	0.209
		16.25	1.6	16.3	16.16 C	5.59	1.83	0.209
		16.5	1.6	32.3	16.11 C	5.59	2.14	0.209
		17	1.7	15	17.07 C	5.54	1.40	0.210
		17.5	1.7	7.82	17.16 C	5.56	1.24	0.210
	Oct-09	1.25	0.2	163.2	17.02 C	5.33	3.13	0.159
		2.5	0.3	51	16.98 C	5.17	3.53	0.135
		3.75	0.5	20.3	16.94 C	5.00	2.43	0.176
		4.75	0.6	12.06	16.95 C	4.99	2.08	0.185
		5.25	0.7	9.74	16.95 C	5.00	1.92	0.189
		7	0.9	8.14	16.94 C	5.00	1.76	0.190
	Apr-10	1	0.1	95.5	16.95	5.37	0.88	0.194
		2.5	0.3	53.1	17	5.42	1.37	0.184
		3.5	0.4	31.7	17.01	5.44	0.87	0.208
		4.75	0.6	20.6	17.02	5.45	0.70	0.217
		6	0.7	12.3	17.02	5.45	0.61	0.215
		7.5	0.9	11.3	17.03	5.45	0.50	0.221
		9	1.1	9.63	17.02	5.45	0.46	0.222
	Oct-10	0.25	0.0	58.6	17.35	5.83	1.52	0.152
		1.25	0.1	36.5	17.45	5.61	0.64	0.245
		2	0.2	19.5	17.53	5.57	0.55	0.226
		3	0.3	9.72	17.39	5.60	0.48	0.231
		4	0.4	9.63	17.42	5.61	0.47	0.236
	Apr-11	2.5	0.2	134	16.99	5.64	2.64	0.239
		4	0.4	42.4	17.05	5.70	2.54	0.229
		5	0.5	22.5	17.07	5.69	2.72	0.246
		7	0.7	21.5	17.06	5.68	2.53	0.249
		9	0.9	17.4	17.07	5.68	2.63	0.249

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		10	0.9	11.5	17.09	5.67	2.73	0.247
		11.5	1.1	6.94	17.09	5.66	2.73	0.247
		12.5	1.2	7.80	17.08	5.67	2.77	0.249
		13.5	1.3	6.99	17.08	5.66	2.79	0.248
OW-74A	Oct-11	3.5	0.5	217	16.97	4.99	0.97	0.230
		7	0.9	153	16.98	5.18	0.71	0.238
		10.5	1.4	68.1	16.99	5.23	0.53	0.237
		14	1.9	48.9	16.96	5.25	0.43	0.236
		17.5	2.4	34.6	16.97	5.28	0.39	0.238
		21	2.8	24.5	16.96	5.26	0.37	0.237
		24.5	3.3	11.7	16.95	5.27	0.35	0.237
	Apr-12	1.5	0.2	134	16.94	5.57	0.79	0.225
		3	0.4	67	17.13	5.55	0.65	0.22
		4	0.5	30.3	17.12	5.54	0.56	0.225
		5	0.7	19.2	17.20	5.54	0.42	0.227
		6	0.8	10.9	17.25	5.53	0.37	0.229
		7	0.9	8.39	17.29	5.53	0.34	0.232
		8.5	1.1	7.31	17.27	5.52	0.31	0.233
		10	1.3	7.04	17.30	5.51	0.30	0.233
		11	1.4	7.6	17.31	5.51	0.29	0.234
		12.5	1.6	7.75	17.33	5.51	0.29	0.233
		14	1.8	7.72	17.34	5.50	0.28	0.233
		15	2.0	7.34	17.37	5.50	0.28	0.234
		16	2.1	4.87	17.37	5.50	0.27	0.234
		17.5	2.3	4.43	17.39	5.50	0.27	0.234
		19	2.5	4.52	17.40	5.50	0.27	0.234
		20	2.6	4.42	17.41	5.49	0.27	0.234
		21	2.8	4.4	17.42	5.49	0.27	0.234
		23	3.0	4.37	17.42	5.49	0.27	0.234
	Oct-12	1	0.1	128	16.84	5.26	0.98	0.236
		2	0.3	49.2	17.07	5.44	0.86	0.222
		4	0.6	15.1	17.20	5.49	0.81	0.225
		5	0.7	10.93	17.14	5.43	0.74	0.231
		6	0.8	8.54	17.25	5.48	0.61	0.232
		7	1.0	8.59	17.19	5.50	0.52	0.234
		8	1.1	8.47	17.20	5.52	0.50	0.236
		9	1.3	8.2	17.21	5.50	0.53	0.237
		10	1.4	8.15	17.22	5.51	0.53	0.238
		11	1.6	8.12	17.29	5.52	0.45	0.237
		12	1.7	8.11	17.26	5.50	0.50	0.239
	Oct-12	13	1.8	6.96	17.33	5.52	0.49	0.238
		14	2.0	5.74	17.33	5.52	0.49	0.238
		15	2.1	5.59	17.39	5.51	0.46	0.237
		16	2.3	5.47	17.49	5.54	0.48	0.237
		17	2.4	5.52	17.40	5.53	0.44	0.238
		18	2.5	4.08	17.52	5.53	0.42	0.237
		19	2.7	3.98	17.57	5.50	0.48	0.237
		20	2.8	3.8	17.63	5.52	0.42	0.235
		21	3.0	2.85	17.67	5.53	0.41	0.239
		22	3.1	2.15	17.81	5.51	0.40	0.238
	Apr-13	2.0	0.3	41.8	17.24	5.13	1.35	0.197
		4.5	0.6	19.7	17.40	5.21	0.63	0.217
		6.0	0.8	9.18	17.26	5.36	0.59	0.220
		9.0	1.3	7.46	17.38	5.37	0.46	0.220
		11	1.6	7.14	17.39	5.42	0.49	0.221
		16	2.3	4.72	17.30	5.48	0.46	0.221
		21	3.0	4.13	17.29	5.55	0.44	0.221
		22.5	3.2	2.03	17.33	5.50	0.44	0.220
		24	3.4	1.79	17.32	5.51	0.44	0.221
	Oct-13	3	0.4	41	16.31	5.85	3.18	115
		11	1.6	64	17.48	5.72	0.50	227
		20	2.8	11	19.88	5.70	0.10	239
		27	3.8	9.89	19.66	5.70	0.13	245
		31	4.4	8.70	19.52	5.69	0.14	245
		35	4.9	6.13	19.78	5.69	0.15	245
	Apr-14	3	0.4	2.43	16.50	5.67	2.43	0.164
		5	0.7	1.54	16.77	5.67	1.54	0.197
		6	0.8	0.95	16.66	5.65	0.95	0.229
		8	1.1	0.66	16.83	5.64	0.66	0.234
		11	1.6	0.45	17.02	5.64	0.45	0.246
		13	1.8	0.6	17.70	5.63	0.60	0.243
		18	2.5	0.38	16.79	5.62	0.60	0.244
		22	3.1	0.33	16.76	5.60	0.38	0.245
		27	3.8	0.33	16.85	5.60	0.33	0.245
		30	4.2	0.31	16.75	5.61	0.31	0.245
		32	4.5	0.31	16.77	5.61	0.31	0.245
OW-74A	Oct-14	4	0.4	56.8	17.4	5.46	1.6	0.243

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		8	0.8	19.5	17.53	5.49	1.19	0.251
		10	0.9	21.4	17.95	5.49	1.05	0.253
		13	1.2	3.48	17.91	5.52	0.9	0.252
		16	1.5	1.38	17.85	5.53	0.83	0.253
		20	1.9	2.39	17.77	5.54	0.79	0.252
		23.5	2.2	1.01	17.82	5.54	0.76	0.253
		28	2.6	0.87	17.86	5.55	0.74	0.252
		31	2.9	1.19	17.88	5.55	0.73	0.252
		33.5	3.2	1.83	17.89	5.55	0.73	0.252
	Apr-15	3	0.3		16.96	4.91	1.99	0.224
		3.5	0.3	62.2	17.62	5.03	3.06	0.113
		5	0.5	24.9	17.92	5.09	1.04	0.249
		8	0.8	21.3	18.27	5.18	0.55	0.254
		11.5	1.1	11.16	17.81	5.12	0.38	0.256
		14	1.3	8.66	18.54	5.25	0.33	0.257
		17	1.6	4.95	17.48	5.07	0.29	0.257
		20.5	1.9	3.94	17.45	5.15	0.27	0.257
		24	2.3	3	17.49	5.2	0.26	0.258
		30	2.8	2.9	17.38	5.21	0.24	0.258
		33	3.1	1.68	17.42	5.21	0.24	0.257
IW-4	Oct-08	0.1	0.2	> 1000	18.44 C	7.65	4.78	1.474
		0.2	0.5	> 1000	15.88 C	7.70	4.47	1.876
		0.4	0.9	> 1000	17.57 C	7.41	7.03	2.251
	Apr-09[a]	0	0.0		17.13 C	6.95	2.21	1.938
		0.05	0.1		16.53 C	6.95	2.16	0.928
		0.1	0.1		16.42 C	6.94	2.01	1.925
		0.15	0.2		16.22 C	6.95	1.97	1.923
		0.2	0.2		16.05 C	6.94	1.98	1.921
		0.2	0.2		15.91 C	6.93	1.77	1.919
		0.2	0.2		16.09 C	6.93	1.83	1.916
		0.25	0.3	88.8	16.13 C	6.93	1.75	1.910
		0.25	0.3	83.9	16.17 C	6.92	1.65	1.907
		0.3	0.4	78.3	16.16 C	6.92	1.52	1.906
		0.7	0.8	47.1	16.6 C	6.94	1.83	1.867
		0.74	0.9	43.6	16.84 C	6.94	1.65	1.866
		0.79	0.9	42.3	16.99 C	6.93	1.49	1.863
		0.83	1.0	39.2	17.32 C	6.92	1.28	1.857
		0.87	1.0	37.6	17.86 C	6.92	1.15	1.850
		0.92	1.1	31.6	18.55 C	6.92	0.99	1.844
		0.96	1.1	28.7	19.69 C	6.94	0.87	1.843
		1.1	1.3	28.9	20.71 C	6.93	0.86	1.838
		1.15	1.4	26.1	21.3 C	6.94	0.80	1.835
		1.2	1.4	23.6	21.67 C	6.93	0.66	1.831
		1.24	1.5	18.1	21.87 C	6.93	0.68	1.823
		1.28	1.5	16.7	22.07 C	6.92	0.64	1.816
		1.32	1.6	16.6	22.28 C	6.92	0.65	1.808
		1.36	1.6	14	22.4 C	6.92	0.59	1.802
		1.41	1.7	13.9	22.46 C	6.91	0.60	1.790
		1.46	1.7	12.4	22.63 C	6.91	0.54	1.788
		1.6	1.9	12.2	22.91 C	6.91	0.52	1.784
		1.65	1.9	11.2	23.22 C	6.92	0.48	1.774
		1.7	2.0	10.7	23.47 C	6.92	0.46	1.780
		1.72	2.0	10.1	23.46 C	6.92	0.47	1.772
		1.74	2.0	9.7	23.42 C	6.92	0.47	1.773
	Oct-09	0.2	0.2	57.3	18.94 C	6.67	1.81	1.311
		0.5	0.4	27.3	18.85 C	6.51	1.11	1.220
		0.8	0.7	20.2	19.09 C	6.50	0.99	1.217
		1	0.8	14.4	19.14 C	6.49	0.88	1.220
		1.15	1.0	11.1	19.14 C	6.49	0.79	1.221
		1.3	1.1	10.8	19.19 C	6.49	0.68	1.225
		1.35	1.1	9.1	19.21 C	6.48	0.65	1.225
	Oct-11	0.1	0.4	>1000	21.37	6.77	9.42	1.056
		0.13	0.5	>1000	21.46	6.76	9.90	1.051
		0.14	0.5	>1000	21.08	6.75	10.08	1.044
		0.16	0.6	>1000	21.00	6.74	10.33	1.036
		0.19	0.7	579	21.14	6.74	10.71	1.025
		0.23	0.8	650	21.40	6.75	12.17	1.021
		0.25	0.9	>1000	21.62	6.73	12.66	1.051
		0.27	1.0	>1000	21.90	6.72	12.69	1.002
		0.29	1.0	590	22.04	6.70	13.01	0.988
		0.3	1.1	650	22.17	6.69	14.18	0.976
		0.31	1.1	350	22.23	6.67	14.62	0.963
		0.32	1.1	250	22.28	6.68	14.79	0.957
IW-4	Nov-11	0.05	0.2	>1000	16.86	6.80	2.97	1.084
		0.1	0.5	>1000	17.32	6.86	2.56	1.031
		0.2	0.9	730	17.28	6.75	1.40	0.991
	Apr-12	0.15	0.4	>1000	18.88	6.05	3.14	0.996
		0.25	0.7	>1000	18.47	6.45	3.03	0.891
		0.3	0.8	>1000	18.29	6.56	2.46	0.894
		0.32	0.9	>1000	18.39	6.60	1.81	0.888

Groundwater Sampling Field Data
Former Olympic Manufacturing Site; Smyrna, Georgia

Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		0.4	1.1	>1000	18.47	6.90	2.88	0.932
		0.42	1.2	>1000	18.46	6.81	2.77	0.900
		0.46	1.3	>1000	18.63	6.84	2.46	0.905
		0.48	1.3	>1000	18.60	6.98	3.41	0.919
		0.5	1.4	>1000	18.78	6.89	2.84	0.895
		0.53	1.5	>1000	18.74	6.89	3.18	0.884
		0.56	1.6	>1000	18.89	6.84	2.70	0.872
		0.58	1.6	>1000	18.94	6.90	2.95	0.878
		0.63	1.8	>1000	19.12	6.87	2.99	0.879
		0.65	1.8	>1000	19.01	7.02	3.73	0.902
		0.69	1.9	>1000	19.11	6.85	2.86	0.864
		0.72	2.0	>1000	20.14	6.94	3.62	0.857
		0.75	2.1	860	19.44	6.91	3.53	0.860
		0.85	2.4	875	20.16	6.85	3.18	0.859
		1.1	3.1	860	21.53	6.90	3.52	0.908
	Oct-12	Not sampled due to insufficient water						
	Apr-13	0.00	0.00	180.00	15.89	5.76	8.41	1.663
		0.50	1.39	95.00	16.76	6.37	0.98	1.601
		1.00	2.78	60.10	17.78	6.40	0.39	1.503
		1.40	3.89	44.20	17.86	6.42	0.27	1.385
		1.60	4.44	27.50	16.42	6.32	0.23	1.344
		1.80	5.00	24.80	16.77	6.39	0.21	1.307
		2.00	5.56	21.80	16.84	6.40	0.19	1.267
		2.20	6.11	19.00	16.88	6.40	0.17	1.233
		2.40	6.67	15.10	16.87	6.41	0.16	1.203
		2.60	7.22	12.70	17.02	6.40	0.15	1.179
		2.70	7.50	9.48	17.20	6.41	0.14	1.173
		2.80	7.78	9.19	17.25	6.41	0.13	1.167
		2.90	8.06	8.02	17.35	6.41	0.14	1.162
IW-4	Oct-14	0.50	1.39	19.70	18.50	6.19	0.50	0.879
		1.25	3.47	4.20	18.57	6.27	0.42	0.905
		2.00	5.56	3.47	18.61	6.30	0.41	0.897
		2.75	7.64	3.05	18.85	6.32	0.44	0.894
		3.50	9.72	3.15	18.88	6.33	0.45	0.882
SMW-1	Apr-15	0.30	0.32	67.50	18.60	4.44	7.94	0.083
		0.60	0.64	90.70	18.59	4.68	6.99	0.091
		1.00	1.06	41.10	18.59	4.59	6.46	0.087
		1.50	1.60	32.60	18.63	4.64	6.16	0.082
		2.00	2.13	24.10	18.68	4.66	6.13	0.082
		2.50	2.66	16.20	18.79	4.77	5.88	0.084
		3.00	3.19	11.10	19.11	4.97	5.82	0.085
		3.50	3.72	9.85	19.26	5.00	5.65	0.086
		4.00	4.26	5.41	19.34	5.04	5.69	0.087
		4.50	4.79	8.73	19.42	5.10	5.74	0.087
		5.00	5.32	6.11	19.52	5.09	5.81	0.087
SMW-2	Apr-15	0.50	0.72	81.40	18.71	5.39	1.00	0.096
		1.00	1.45	39.30	18.77	5.31	0.87	0.090
		1.30	1.88	30.50	18.78	5.30	0.81	0.090
		1.75	2.54	16.20	18.76	5.31	0.73	0.090
		2.00	2.90	9.08	18.80	5.31	0.81	0.090
		2.50	3.62	9.48	18.81	5.31	0.76	0.090
		3.00	4.35	8.23	18.81	5.32	0.74	0.091
		3.50	5.07	5.61	18.78	5.32	0.77	0.091

[a] Water quality parameters were measured every five minutes. Where purging extended over an long period, data is shown at 10 minute intervals in this table until the last

[b] At least five well volumes were removed in efforts to get the turbidity < 10 NTU prior to sampling.

[c] Water was visually clear.

[d] Purged well dry.

Appendix C: Laboratory Reports and Data Validation Forms *(on CD Rom)*

Brown AND Caldwell

LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 3/16/15

Project Number: 145686-020-001 Project Name/Client: Sara Lee

Project Manager: T. Reifenberger Sampled By: G. Skala

Laboratory: AES Order No.: 1503606

2. SAMPLE INFORMATION

Purpose of sampling: _____

Total number of samples: 7

☐ Groundwater: 5 ☐ Soil: _____ ☐ Soil Gas: _____ ☐ Trip Blank: 1

☐ Surface water: _____ ☐ Sediment: _____ ☐ Other: _____ ☐ Field Blank: _____

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☐ Equip Blank: 1

Analyses requested: VOCs

Method detection limits (MDLs) or reporting limits (RLs) requested: NA

Duplicates: 15065-DUP is a field duplicate of 15065-MW-9a

3. DATA VERIFICATION

Check yes or no. Refer to applicable Data Verification Guidelines to determine appropriate action.

☑ Yes ☐ No ☐ NA **Was the Chain of Custody intact?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were custody seals intact on samples bottles and/or coolers as necessary?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were cooler temperatures within the acceptable range of 0-6°C?**

If no: Notes: 3.2

☑ Yes ☐ No ☐ NA **Were samples physically and chemically preserved properly (i.e. no bubbles in VOC vials)**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Was the case narrative of the analytical report free of any quality issues, discrepancies, etc.?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were all samples labeled, analyzed, and reported correctly? (no samples held, no wrong analyses, etc.)**

If no: If within holding time, call lab immediately. Notes: _____

☑ Yes ☐ No ☐ NA **Were all samples analyzed within holding time?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were appropriate analytes reported?**

If no: Notes: _____

☐ Yes ☐ No ☑ NA **Were soil and/or sediment concentrations reported appropriately? (DW vs WW)**

If no: Call lab immediately to verify. Notes: _____

☐ Yes ☐ No ☑ NA **If analyzed for the following parameters, was the following true for all analytes?**

- ☐ Yes ☐ No ☑ NA Total metals ≥ Dissolved metals
- ☐ Yes ☐ No ☑ NA TKN > Organic nitrogen
- ☐ Yes ☐ No ☑ NA TKN > Ammonia (NH_3)
- ☐ Yes ☐ No ☑ NA COD > TOC
- ☐ Yes ☐ No ☑ NA COD > BOD

If no: Report to project manager and contact lab's QA/QC manager if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were method detection limits (MDL), reporting limits (RLs), and/or dilution factors appropriate?**

If no: Report to project manager and contact lab if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were surrogate % recoveries within the acceptable range of LCL ≤ x ≤ UCL?**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Were target analytes detected in any field, equipment, and/or laboratory blanks?**

If yes: Notes: _____

Brown AND Caldwell : **LABORATORY DATA VERIFICATION FORM**

☐ **Yes** ☐ **No** ☑ **NA** **Were any target analytes detected below practical quantitation limits (PQLs)?**

If yes: Notes: _____

☑ **Yes** ☐ **No** ☐ **NA** **Were any sample duplicates collected?**

If yes: Notes: _____

☐ **Yes** ☑ **No** ☐ **NA** **Were any laboratory duplicates reported for project samples?**

If yes: Notes: _____

☑ **Yes** ☐ **No** ☐ **NA** **Were any matrix spikes reported for project samples?**

If yes: Notes: No issues to report

☑ **Yes** ☐ **No** ☐ **NA** **Were any laboratory control samples reported?**

If yes: Notes: No issues to report

☐ **Yes** ☑ **No** ☐ **NA** **Were calibration standards reported?**

If yes: Notes: _____

4. COMMENTS & SUMMARY OF ACTIONS TAKEN (Attach additional pages if necessary)

Comment No. 1: Sample 15065-DUP is a field duplicate of 15065-MW-9a. Refer to the attached sheet for a detailed duplicate comparison and calculated relative percent differences (RPDs). All RPDs are within acceptable limits. No further actions required.

Sarah Jones

Signature of Data Verifier

(Rev 3/14/13 - SEJ)

LABORATORY DATA VERIFICATION

Sample Duplicate Comparison

PROJECT INFORMATION

Project Number:	145686-020-001	**Project Name:**	Sara Lee	**Task/Purpose of Sampling:**	
Project Manager:	T. Reifenberger	**Client:**			
Laboratory:	AES	**Data Report:**	1503606		

DUPLICATE INFORMATION

Parent Sample ID:	15065-MW-9a	**Date/Time:**	3/6/15 1140	**Matrix:**	Groundwater
Duplicate Sample ID:	15065-DUP	**Date/Time:**	3/6/15 1200	**Matrix:**	Groundwater

Analytes (Units)	Analytical Results[a]		Relative Percent Difference (RPD) Comparison		Reporting Limit (RL) Comparison (If Needed)					Actions Required
	15065-MW-9a	15065-DUP	RPD	Inorg: RPD > 20%? Org: RPD > 30%?	15065-MW-9a		15065-DUP		Either Sample Conc. ≥ 2X RLs?	
					RL	2x RL	RL	2x RL		
1,3-Dichlorobenzene (ug/L)	8.1	7.7	5%	NO						No further action required.
1,4-Dichlorobenzene	10	9.8	2%	NO						No further action required.
Chlorobenzene	69	66	4%	NO						No further action required.
Chloroform	15	15	0%	NO						No further action required.
Tetrachloroethene	31	31	0%	NO						No further action required.

[a] Results in red text and italics were below reporting limits. Values are reporting limits for comparison purposes only.

Relative Percent Difference (RPD) is a quantitative indicator of quality assurance and quality control (QA/QC) for repeated measurements (i.e. duplicates) where the outcome is expected to be the same. It is calculated using the following equation:

$$RPD = \left| \frac{x_1 - x_2}{(x_1 + x_2)/2} \right| \times 100$$

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 13, 2015

TRISH REIFENBERGER P.E.
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 394-2997
FAX: (770) 396-9495

RE: Sara Lee

Dear TRISH REIFENBERGER P.E.: Order No: 1503606

Analytical Environmental Services, Inc. received 7 samples on 3/6/2015 12:45:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1503606

Date: 3/6/15 Page 1 of 1

COMPANY: Brown & Caldwell

ADDRESS: 990 Hammond Dr. Ste 400 Atlanta, Ga

PHONE:

FAX:

SAMPLED BY: Meagy Mikala

SIGNATURE: Mikala HT

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) HCL	1665	REMARKS	No # of Containers
1	15064-SMW-2	3-5-15	1255	X		GW	X			3
2	15064-MW-9b	3-5-15	1530	X		GW	X			1
3	15065-EB	3-6-15	0815	X		W	X			1
4	15065-SMW-1	3-6-15	0955	X		GW	X			1
5	15065-MW-9a	3-6-15	1140	X		GW	X			1
6	15065-DUP	3-6-15	1200	X		GW	X			1
7	Temp blanks	—	—	X		W	X			2
8										
9										
10										
11										
12										
13										
14										

ANALYSIS REQUESTED

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Mikala HT	3/6/15 1245	1:	3/6/15 12:45
2:		2:	
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Sara Lee

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: TReifenberger@brwncald.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers:

Turnaround Time Request

- ○ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other

STATE PROGRAM (if any):

E-mail? (Y) N: Fax? Y / N

DATA PACKAGE: I (II) III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

CLIENT FedEx UPS MAIL COURIER

GREYHOUND OTHER

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

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

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15064-SMW-2
Project Name:	Sara Lee	**Collection Date:**	3/5/2015 12:55:00 PM
Lab ID:	1503606-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
2-Butanone	BRL	50		ug/L	204367	1	03/11/2015 23:10	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
Acetone	BRL	50		ug/L	204367	1	03/11/2015 23:10	CH
Benzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Chlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Chloroethane	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
Chloroform	5.6	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Chloromethane	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Freon-113	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/11/2015 23:10	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15064-SMW-2
Project Name:	Sara Lee	**Collection Date:**	3/5/2015 12:55:00 PM
Lab ID:	1503606-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Tetrachloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Toluene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/11/2015 23:10	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/11/2015 23:10	CH
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	204367	1	03/11/2015 23:10	CH
Surr: Dibromofluoromethane	84.1	78.7-124		%REC	204367	1	03/11/2015 23:10	CH
Surr: Toluene-d8	92.8	81.3-120		%REC	204367	1	03/11/2015 23:10	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15064-MW-9b
Project Name:	Sara Lee	**Collection Date:**	3/5/2015 3:30:00 PM
Lab ID:	1503606-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,3-Dichlorobenzene	31	5.0		ug/L	204367	1	03/12/2015 01:57	CH
1,4-Dichlorobenzene	42	5.0		ug/L	204367	1	03/12/2015 01:57	CH
2-Butanone	BRL	50		ug/L	204367	1	03/12/2015 01:57	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
Acetone	BRL	50		ug/L	204367	1	03/12/2015 01:57	CH
Benzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Chlorobenzene	280	50		ug/L	204367	10	03/12/2015 19:46	CH
Chloroethane	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
Chloroform	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Chloromethane	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
Ethylbenzene	50	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Freon-113	BRL	10		ug/L	204367	1	03/12/2015 01:57	CH
Isopropylbenzene	5.8	5.0		ug/L	204367	1	03/12/2015 01:57	CH
m,p-Xylene	150	10		ug/L	204367	1	03/12/2015 01:57	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
o-Xylene	45	5.0		ug/L	204367	1	03/12/2015 01:57	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15064-MW-9b
Project Name:	Sara Lee	**Collection Date:**	3/5/2015 3:30:00 PM
Lab ID:	1503606-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Tetrachloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Toluene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:57	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/12/2015 01:57	CH
Surr: 4-Bromofluorobenzene	92.3	70.6-123		%REC	204367	10	03/12/2015 19:46	CH
Surr: 4-Bromofluorobenzene	103	70.6-123		%REC	204367	1	03/12/2015 01:57	CH
Surr: Dibromofluoromethane	84.2	78.7-124		%REC	204367	10	03/12/2015 19:46	CH
Surr: Dibromofluoromethane	87.6	78.7-124		%REC	204367	1	03/12/2015 01:57	CH
Surr: Toluene-d8	87.6	81.3-120		%REC	204367	10	03/12/2015 19:46	CH
Surr: Toluene-d8	93.7	81.3-120		%REC	204367	1	03/12/2015 01:57	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-EB
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 8:15:00 AM
Lab ID:	1503606-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
2-Butanone	BRL	50		ug/L	204367	1	03/12/2015 00:23	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
Acetone	BRL	50		ug/L	204367	1	03/12/2015 00:23	CH
Benzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Chlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Chloroethane	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
Chloroform	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Chloromethane	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Freon-113	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/12/2015 00:23	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-EB
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 8:15:00 AM
Lab ID:	1503606-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Tetrachloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Toluene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:23	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/12/2015 00:23	CH
Surr: 4-Bromofluorobenzene	88.9	70.6-123		%REC	204367	1	03/12/2015 00:23	CH
Surr: Dibromofluoromethane	85	78.7-124		%REC	204367	1	03/12/2015 00:23	CH
Surr: Toluene-d8	94.5	81.3-120		%REC	204367	1	03/12/2015 00:23	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-SMW-1
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 9:55:00 AM
Lab ID:	1503606-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
2-Butanone	BRL	50		ug/L	204367	1	03/12/2015 00:46	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
Acetone	BRL	50		ug/L	204367	1	03/12/2015 00:46	CH
Benzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Chlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Chloroethane	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
Chloroform	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Chloromethane	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Freon-113	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/12/2015 00:46	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-SMW-1
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 9:55:00 AM
Lab ID:	1503606-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Tetrachloroethene	44	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Toluene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/12/2015 00:46	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/12/2015 00:46	CH
Surr: 4-Bromofluorobenzene	88.6	70.6-123		%REC	204367	1	03/12/2015 00:46	CH
Surr: Dibromofluoromethane	84.2	78.7-124		%REC	204367	1	03/12/2015 00:46	CH
Surr: Toluene-d8	92.7	81.3-120		%REC	204367	1	03/12/2015 00:46	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-MW-9a
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 11:40:00 AM
Lab ID:	1503606-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,3-Dichlorobenzene	8.1	5.0		ug/L	204367	1	03/12/2015 01:10	CH
1,4-Dichlorobenzene	10	5.0		ug/L	204367	1	03/12/2015 01:10	CH
2-Butanone	BRL	50		ug/L	204367	1	03/12/2015 01:10	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
Acetone	BRL	50		ug/L	204367	1	03/12/2015 01:10	CH
Benzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Chlorobenzene	69	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Chloroethane	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
Chloroform	15	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Chloromethane	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Freon-113	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/12/2015 01:10	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-MW-9a
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 11:40:00 AM
Lab ID:	1503606-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Tetrachloroethene	31	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Toluene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:10	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/12/2015 01:10	CH
Surr: 4-Bromofluorobenzene	91.4	70.6-123		%REC	204367	1	03/12/2015 01:10	CH
Surr: Dibromofluoromethane	90	78.7-124		%REC	204367	1	03/12/2015 01:10	CH
Surr: Toluene-d8	93.5	81.3-120		%REC	204367	1	03/12/2015 01:10	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-DUP
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 12:00:00 PM
Lab ID:	1503606-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,3-Dichlorobenzene	7.7	5.0		ug/L	204367	1	03/12/2015 01:34	CH
1,4-Dichlorobenzene	9.8	5.0		ug/L	204367	1	03/12/2015 01:34	CH
2-Butanone	BRL	50		ug/L	204367	1	03/12/2015 01:34	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
Acetone	BRL	50		ug/L	204367	1	03/12/2015 01:34	CH
Benzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Chlorobenzene	66	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Chloroethane	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
Chloroform	15	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Chloromethane	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Freon-113	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/12/2015 01:34	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15065-DUP
Project Name:	Sara Lee	**Collection Date:**	3/6/2015 12:00:00 PM
Lab ID:	1503606-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Tetrachloroethene	31	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Toluene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/12/2015 01:34	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/12/2015 01:34	CH
Surr: 4-Bromofluorobenzene	92.1	70.6-123		%REC	204367	1	03/12/2015 01:34	CH
Surr: Dibromofluoromethane	86	78.7-124		%REC	204367	1	03/12/2015 01:34	CH
Surr: Toluene-d8	93.5	81.3-120		%REC	204367	1	03/12/2015 01:34	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANKS
Project Name:	Sara Lee	**Collection Date:**	3/6/2015
Lab ID:	1503606-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,1-Dichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,1-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2-Dibromoethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2-Dichloroethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,2-Dichloropropane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
2-Butanone	BRL	50		ug/L	204367	1	03/11/2015 18:33	CH
2-Hexanone	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
4-Methyl-2-pentanone	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
Acetone	BRL	50		ug/L	204367	1	03/11/2015 18:33	CH
Benzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Bromodichloromethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Bromoform	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Bromomethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Carbon disulfide	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Carbon tetrachloride	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Chlorobenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Chloroethane	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
Chloroform	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Chloromethane	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Cyclohexane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Dibromochloromethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Dichlorodifluoromethane	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
Ethylbenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Freon-113	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
Isopropylbenzene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
m,p-Xylene	BRL	10		ug/L	204367	1	03/11/2015 18:33	CH
Methyl acetate	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Methylcyclohexane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Methylene chloride	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
o-Xylene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 13-Mar-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANKS
Project Name:	Sara Lee	**Collection Date:**	3/6/2015
Lab ID:	1503606-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Tetrachloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Toluene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Trichloroethene	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Trichlorofluoromethane	BRL	5.0		ug/L	204367	1	03/11/2015 18:33	CH
Vinyl chloride	BRL	2.0		ug/L	204367	1	03/11/2015 18:33	CH
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	204367	1	03/11/2015 18:33	CH
Surr: Dibromofluoromethane	83.5	78.7-124		%REC	204367	1	03/11/2015 18:33	CH
Surr: Toluene-d8	86.5	81.3-120		%REC	204367	1	03/11/2015 18:33	CH

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown + Caldwell Work Order Number 1503606

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

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

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

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

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

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

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

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

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

Adjusted? _____ Checked by _____

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: BROWN AND CALDWELL
Project Name: Sara Lee
Workorder: 1503606

ANALYTICAL QC SUMMARY REPORT

BatchID: 204367

Sample ID: **MB-204367** Client ID: Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106597**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Sara Lee
Workorder: 1503606

ANALYTICAL QC SUMMARY REPORT

BatchID: 204367

Sample ID: **MB-204367** Client ID: Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106597**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.79	0	50.00		93.6	70.6	123				
Surr: Dibromofluoromethane	40.29	0	50.00		80.6	78.7	124				
Surr: Toluene-d8	43.34	0	50.00		86.7	81.3	120				

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Sara Lee
Workorder: 1503606

ANALYTICAL QC SUMMARY REPORT

BatchID: 204367

Sample ID: **LCS-204367** Client ID: Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106543**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.04	5.0	50.00		98.1	64.2	137				
Benzene	45.70	5.0	50.00		91.4	72.8	128				
Chlorobenzene	45.81	5.0	50.00		91.6	72.3	126				
Toluene	47.67	5.0	50.00		95.3	74.9	127				
Trichloroethene	46.94	5.0	50.00		93.9	70.5	134				
Surr: 4-Bromofluorobenzene	47.98	0	50.00		96.0	70.6	123				
Surr: Dibromofluoromethane	41.45	0	50.00		82.9	78.7	124				
Surr: Toluene-d8	45.60	0	50.00		91.2	81.3	120				

Sample ID: **1503606-001AMS** Client ID: **15064-SMW-2** Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106559**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	31580	2500	25000		126	60.5	156				
Benzene	28740	2500	25000		115	70	135				
Chlorobenzene	28410	2500	25000		114	70.5	132				
Toluene	29830	2500	25000		119	70.5	137				
Trichloroethene	28740	2500	25000	1.750	115	71.8	139				
Surr: 4-Bromofluorobenzene	22750	0	25000		91.0	70.6	123				
Surr: Dibromofluoromethane	20490	0	25000		81.9	78.7	124				
Surr: Toluene-d8	22750	0	25000		91.0	81.3	120				

Sample ID: **1503606-001AMSD** Client ID: **15064-SMW-2** Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	29390	2500	25000		118	60.5	156	31580	7.18	20	
Benzene	27120	2500	25000		108	70	135	28740	5.80	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Sara Lee
Workorder: 1503606

ANALYTICAL QC SUMMARY REPORT

BatchID: 204367

Sample ID: **1503606-001AMSD** Client ID: **15064-SMW-2** Units: **ug/L** Prep Date: **03/11/2015** Run No: **287402**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **204367** Analysis Date: **03/11/2015** Seq No: **6106562**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	27000	2500	25000		108	70.5	132	28410	5.11	20	
Toluene	28520	2500	25000		114	70.5	137	29830	4.47	20	
Trichloroethene	27380	2500	25000	1.750	110	71.8	139	28740	4.85	20	
Surr: 4-Bromofluorobenzene	22050	0	25000		88.2	70.6	123	22750	0	0	
Surr: Dibromofluoromethane	20710	0	25000		82.8	78.7	124	20490	0	0	
Surr: Toluene-d8	23090	0	25000		92.4	81.3	120	22750	0	0	

Qualifiers:

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

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 4/20/15

Project Number: 145686-020-004 Project Name/Client: Hillshire Farms

Project Manager: T. Reifenberger Sampled By: G. Skala

Laboratory: AES Order No.: 1504444

2. SAMPLE INFORMATION

Purpose of sampling: Semiannual sampling

Total number of samples: 5

☐ Groundwater: 3 ☐ Soil: _____ ☐ Soil Gas: _____ ☐ Trip Blank: 1

☐ Surface water: _____ ☐ Sediment: _____ ☐ Other: _____ ☐ Field Blank: _____

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☐ Equip Blank: 1

Analyses requested: VOCs, TOC, nitrate, sulfate, ferrous iron, methane

Method detection limits (MDLs) or reporting limits (RLs) requested: NA

Duplicates: None

3. DATA VERIFICATION

Check yes or no. Refer to applicable Data Verification Guidelines to determine appropriate action.

☑ **Yes** ☐ **No** ☐ **NA Was the Chain of Custody intact?**

If no: Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were custody seals intact on samples bottles and/or coolers as necessary?**

If no: Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were cooler temperatures within the acceptable range of 0-6°C?**

If no: Notes: 3.1

☑ **Yes** ☐ **No** ☐ **NA Were samples physically and chemically preserved properly (i.e. no bubbles in VOC vials)**

If no: Notes: _____

☐ **Yes** ☑ **No** ☐ **NA Was the case narrative of the analytical report free of any quality issues, discrepancies, etc.?**

If no: Notes: Refer to Comment No. 1

☑ **Yes** ☐ **No** ☐ **NA Were all samples labeled, analyzed, and reported correctly? (no samples held, no wrong analyses, etc.)**

If no: If within holding time, call lab immediately. Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were all samples analyzed within holding time?**

If no: Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were appropriate analytes reported?**

If no: Notes: _____

☐ **Yes** ☐ **No** ☑ **NA Were soil and/or sediment concentrations reported appropriately? (DW vs WW)**

If no: Call lab immediately to verify. Notes: _____

☐ **Yes** ☐ **No** ☑ **NA If analyzed for the following parameters, was the following true for all analytes?**

- ☐ Yes ☐ No ☑ NA Total metals ≥ Dissolved metals
- ☐ Yes ☐ No ☑ NA TKN > Organic nitrogen
- ☐ Yes ☐ No ☑ NA TKN > Ammonia (NH_3)
- ☐ Yes ☐ No ☑ NA COD > TOC
- ☐ Yes ☐ No ☑ NA COD > BOD

If no: Report to project manager and contact lab's QA/QC manager if needed. Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were method detection limits (MDL), reporting limits (RLs), and/or dilution factors appropriate?**

If no: Report to project manager and contact lab if needed. Notes: _____

☑ **Yes** ☐ **No** ☐ **NA Were surrogate % recoveries within the acceptable range of LCL ≤ x ≤ UCL?**

If no: Notes: _____

☐ **Yes** ☑ **No** ☐ **NA Were target analytes detected in any field, equipment, and/or laboratory blanks?**

If yes: Notes: _____

Brown AND Caldwell : **LABORATORY DATA VERIFICATION FORM**

☐ Yes ☐ No ☑ NA **Were any target analytes detected below practical quantitation limits (PQLs)?**

If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any sample duplicates collected?**

If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any laboratory duplicates reported for project samples?**

If yes: Notes: _____

☑ Yes ☐ No ☐ NA **Were any matrix spikes reported for project samples?**

If yes: Notes: No issues to report

☑ Yes ☐ No ☐ NA **Were any laboratory control samples reported?**

If yes: Notes: No issues to report

☐ Yes ☑ No ☐ NA **Were calibration standards reported?**

If yes: Notes: _____

4. COMMENTS & SUMMARY OF ACTIONS TAKEN (Attach additional pages if necessary)

Comment No. 1: According to the case narrative, the ferrous iron method used by the laboratory was a field applicable method. The use of this method in the laboratory is therefore a deviation from the method. However, no quality control samples indicated issues with the data. Therefore, no further action required.

Sarah E Jones

Signature of Data Verifier

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 14, 2015

TRISH REIFENBERGER P.E.
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3630
FAX: (770) 396-9495

RE: Hillshire Farms

Dear TRISH REIFENBERGER P.E.: Order No: 1504444

Analytical Environmental Services, Inc. received 5 samples on 4/6/2015 4:55:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1504444

Date: _____ Page _____ of _____

COMPANY: Brown & Caldwell	ADDRESS: 990 Hammond Dr, Ste 400 Atlanta, Ga 30328
PHONE:	FAX:
SAMPLED BY: Sheila Steele	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	TOC	Nitrate + Sulfate	Ferrous Iron	Methane												No # of Containers
							PRESERVATION (See codes)																REMARKS
							HI	SI	I	I	HI												
1	15096-MW-20	4-6-15	1105	X		GW	X																
2	15096 MW-6	4-6-15	1240	X		GW	X	X	X	X	X												
3	15096-mw-11	4-6-15	1500	X		GW	X																
4	15096-FB	4-6-15	1530	X		W	X																
5	trip blank	—	—			W	X																
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: George Sheila Steele	4/6/15 1655	1: Temp 3.6°C	4/6/15 4:55pm
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT / / VIA:

IN / / VIA:

(CLIENT) FedEx UPS MAIL COURIER

GREYHOUND OTHER_____

PROJECT INFORMATION

PROJECT NAME: Hillshire Farms

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: TKeltenberger@brwnrld.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time Request

- (0) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): _____

E-mail? (Y) / N; Fax? Y / N

DATA PACKAGE: I (II) III IV

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

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

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL
Project: Hillshire Farms
Lab ID: 1504444

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Sample(s) [list of samples here] was/were analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-20
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 11:05:00 AM
Lab ID:	1504444-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
2-Butanone	BRL	50		ug/L	205615	1	04/08/2015 15:08	CH
2-Hexanone	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
Acetone	BRL	50		ug/L	205615	1	04/08/2015 15:08	CH
Benzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Bromodichloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Bromoform	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Bromomethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Carbon disulfide	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Carbon tetrachloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Chlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Chloroethane	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
Chloroform	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Chloromethane	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Cyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Dibromochloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Dichlorodifluoromethane	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
Ethylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Freon-113	BRL	10		ug/L	205615	1	04/08/2015 15:08	CH
Isopropylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
m,p-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Methyl acetate	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Methylcyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Methylene chloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
o-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-20
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 11:05:00 AM
Lab ID:	1504444-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Tetrachloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Toluene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Trichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:08	CH
Vinyl chloride	BRL	2.0		ug/L	205615	1	04/08/2015 15:08	CH
Surr: 4-Bromofluorobenzene	81.3	70.6-123		%REC	205615	1	04/08/2015 15:08	CH
Surr: Dibromofluoromethane	113	78.7-124		%REC	205615	1	04/08/2015 15:08	CH
Surr: Toluene-d8	104	81.3-120		%REC	205615	1	04/08/2015 15:08	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-6
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 12:40:00 PM
Lab ID:	1504444-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	7.00	1.00		mg/L	R289582	1	04/09/2015 18:39	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
2-Butanone	BRL	50		ug/L	205615	1	04/08/2015 15:32	CH
2-Hexanone	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
Acetone	BRL	50		ug/L	205615	1	04/08/2015 15:32	CH
Benzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Bromodichloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Bromoform	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Bromomethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Carbon disulfide	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Carbon tetrachloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Chlorobenzene	13	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Chloroethane	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
Chloroform	5.9	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Chloromethane	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Cyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Dibromochloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Dichlorodifluoromethane	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
Ethylbenzene	8.1	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Freon-113	BRL	10		ug/L	205615	1	04/08/2015 15:32	CH
Isopropylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
m,p-Xylene	7.2	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Methyl acetate	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-6
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 12:40:00 PM
Lab ID:	1504444-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Methylene chloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
o-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Styrene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Tetrachloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Toluene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Trichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:32	CH
Vinyl chloride	BRL	2.0		ug/L	205615	1	04/08/2015 15:32	CH
Surr: 4-Bromofluorobenzene	90.5	70.6-123		%REC	205615	1	04/08/2015 15:32	CH
Surr: Dibromofluoromethane	110	78.7-124		%REC	205615	1	04/08/2015 15:32	CH
Surr: Toluene-d8	99.8	81.3-120		%REC	205615	1	04/08/2015 15:32	CH
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R289593	1	04/07/2015 09:48	JW
Sulfate	3.7	1.0		mg/L	R289593	1	04/07/2015 09:48	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	260	8		ug/L	205793	2	04/10/2015 13:15	AB
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R289299	1	04/07/2015 08:35	OM

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-11
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 3:00:00 PM
Lab ID:	1504444-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2-Dichlorobenzene	5.0	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
1,4-Dichlorobenzene	8.0	5.0		ug/L	205615	1	04/08/2015 15:56	CH
2-Butanone	BRL	50		ug/L	205615	1	04/08/2015 15:56	CH
2-Hexanone	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
Acetone	BRL	50		ug/L	205615	1	04/08/2015 15:56	CH
Benzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Bromodichloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Bromoform	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Bromomethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Carbon disulfide	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Carbon tetrachloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Chlorobenzene	57	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Chloroethane	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
Chloroform	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Chloromethane	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
cis-1,2-Dichloroethene	23	5.0		ug/L	205615	1	04/08/2015 15:56	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Cyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Dibromochloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Dichlorodifluoromethane	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
Ethylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Freon-113	BRL	10		ug/L	205615	1	04/08/2015 15:56	CH
Isopropylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
m,p-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Methyl acetate	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Methylcyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Methylene chloride	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
o-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-MW-11
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 3:00:00 PM
Lab ID:	1504444-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Tetrachloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Toluene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Trichloroethene	5.2	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205615	1	04/08/2015 15:56	CH
Vinyl chloride	BRL	2.0		ug/L	205615	1	04/08/2015 15:56	CH
Surr: 4-Bromofluorobenzene	86.1	70.6-123		%REC	205615	1	04/08/2015 15:56	CH
Surr: Dibromofluoromethane	107	78.7-124		%REC	205615	1	04/08/2015 15:56	CH
Surr: Toluene-d8	99	81.3-120		%REC	205615	1	04/08/2015 15:56	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-EB
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 3:30:00 PM
Lab ID:	1504444-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
2-Butanone	BRL	50		ug/L	205615	1	04/08/2015 12:45	CH
2-Hexanone	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
Acetone	BRL	50		ug/L	205615	1	04/08/2015 12:45	CH
Benzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Bromodichloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Bromoform	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Bromomethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Carbon disulfide	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Carbon tetrachloride	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Chlorobenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Chloroethane	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
Chloroform	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Chloromethane	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Cyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Dibromochloromethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Dichlorodifluoromethane	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
Ethylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Freon-113	BRL	10		ug/L	205615	1	04/08/2015 12:45	CH
Isopropylbenzene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
m,p-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Methyl acetate	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Methylcyclohexane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Methylene chloride	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
o-Xylene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15096-EB
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015 3:30:00 PM
Lab ID:	1504444-004	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Tetrachloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Toluene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Trichloroethene	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205615	1	04/08/2015 12:45	CH
Vinyl chloride	BRL	2.0		ug/L	205615	1	04/08/2015 12:45	CH
Surr: 4-Bromofluorobenzene	86.6	70.6-123		%REC	205615	1	04/08/2015 12:45	CH
Surr: Dibromofluoromethane	114	78.7-124		%REC	205615	1	04/08/2015 12:45	CH
Surr: Toluene-d8	102	81.3-120		%REC	205615	1	04/08/2015 12:45	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015
Lab ID:	1504444-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
2-Butanone	BRL	50		ug/L	205615	1	04/07/2015 11:42	CH
2-Hexanone	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
Acetone	BRL	50		ug/L	205615	1	04/07/2015 11:42	CH
Benzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Bromodichloromethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Bromoform	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Bromomethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Carbon disulfide	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Carbon tetrachloride	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Chlorobenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Chloroethane	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
Chloroform	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Chloromethane	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Cyclohexane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Dibromochloromethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Dichlorodifluoromethane	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
Ethylbenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Freon-113	BRL	10		ug/L	205615	1	04/07/2015 11:42	CH
Isopropylbenzene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
m,p-Xylene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Methyl acetate	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Methylcyclohexane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Methylene chloride	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
o-Xylene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hillshire Farms	**Collection Date:**	4/6/2015
Lab ID:	1504444-005	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Tetrachloroethene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Toluene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Trichloroethene	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205615	1	04/07/2015 11:42	CH
Vinyl chloride	BRL	2.0		ug/L	205615	1	04/07/2015 11:42	CH
Surr: 4-Bromofluorobenzene	78.3	70.6-123		%REC	205615	1	04/07/2015 11:42	CH
Surr: Dibromofluoromethane	120	78.7-124		%REC	205615	1	04/07/2015 11:42	CH
Surr: Toluene-d8	104	81.3-120		%REC	205615	1	04/07/2015 11:42	CH

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brainard Caldwell Work Order Number 1504444

Checklist completed by _____ 4/6/15
Signature Date

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

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

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

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

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

Cooler #1 3.1° Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

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

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

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

Adjusted? _____ Checked by MT

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Lab Order: 1504444

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504444-001A	15096-MW-20	4/6/2015 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		4/6/2015 11:51:00 AM	04/08/2015
1504444-002A	15096-MW-6	4/6/2015 12:40:00PM	Groundwater	TCL VOLATILE ORGANICS		4/6/2015 11:51:00 AM	04/08/2015
1504444-002B	15096-MW-6	4/6/2015 12:40:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57 AM	04/10/2015
1504444-002C	15096-MW-6	4/6/2015 12:40:00PM	Groundwater	Total Organic Carbon (TOC)			04/09/2015
1504444-002D	15096-MW-6	4/6/2015 12:40:00PM	Groundwater	ION SCAN			04/07/2015
1504444-002E	15096-MW-6	4/6/2015 12:40:00PM	Groundwater	Ferrous Iron			04/07/2015
1504444-003A	15096-MW-11	4/6/2015 3:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/6/2015 11:51:00 AM	04/08/2015
1504444-004A	15096-EB	4/6/2015 3:30:00PM	Aqueous	TCL VOLATILE ORGANICS		4/6/2015 11:51:00 AM	04/08/2015
1504444-005A	TRIP BLANK	4/6/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/6/2015 11:51:00 AM	04/07/2015

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: 205615

Sample ID: **MB-205615** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289253**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205615** Analysis Date: **04/06/2015** Seq No: **6149098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: 205615

Sample ID: **MB-205615** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289253**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205615** Analysis Date: **04/06/2015** Seq No: **6149098**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	40.68	0	50.00		81.4	70.6	123				
Surr: Dibromofluoromethane	55.53	0	50.00		111	78.7	124				
Surr: Toluene-d8	48.78	0	50.00		97.6	81.3	120				

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: 205615

Sample ID: **LCS-205615** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289253**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205615** Analysis Date: **04/06/2015** Seq No: **6149097**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	58.43	5.0	50.00		117	64.2	137				
Benzene	53.68	5.0	50.00		107	72.8	128				
Chlorobenzene	54.37	5.0	50.00		109	72.3	126				
Toluene	54.74	5.0	50.00		109	74.9	127				
Trichloroethene	53.89	5.0	50.00		108	70.5	134				
Surr: 4-Bromofluorobenzene	44.15	0	50.00		88.3	70.6	123				
Surr: Dibromofluoromethane	52.26	0	50.00		105	78.7	124				
Surr: Toluene-d8	47.77	0	50.00		95.5	81.3	120				

Sample ID: **1504376-003AMS** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289317**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205615** Analysis Date: **04/07/2015** Seq No: **6150665**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	902.0	100	1000		90.2	60.5	156				
Benzene	920.0	100	1000		92.0	70	135				
Chlorobenzene	954.2	100	1000		95.4	70.5	132				
Toluene	928.2	100	1000		92.8	70.5	137				
Trichloroethene	938.2	100	1000		93.8	71.8	139				
Surr: 4-Bromofluorobenzene	1007	0	1000		101	70.6	123				
Surr: Dibromofluoromethane	946.2	0	1000		94.6	78.7	124				
Surr: Toluene-d8	953.4	0	1000		95.3	81.3	120				

Sample ID: **1504376-003AMSD** Client ID: Units: **ug/L** Prep Date: **04/06/2015** Run No: **289317**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205615** Analysis Date: **04/07/2015** Seq No: **6150666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	879.2	100	1000		87.9	60.5	156	902.0	2.56	20	
Benzene	916.4	100	1000		91.6	70	135	920.0	0.392	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: 205615

Sample ID: **1504376-003AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **04/06/2015** Run No: **289317**
BatchID: **205615** Analysis Date: **04/07/2015** Seq No: **6150666**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	967.4	100	1000		96.7	70.5	132	954.2	1.37	20	
Toluene	916.8	100	1000		91.7	70.5	137	928.2	1.24	20	
Trichloroethene	940.2	100	1000		94.0	71.8	139	938.2	0.213	20	
Surr: 4-Bromofluorobenzene	1006	0	1000		101	70.6	123	1007	0	0	
Surr: Dibromofluoromethane	961.4	0	1000		96.1	78.7	124	946.2	0	0	
Surr: Toluene-d8	975.2	0	1000		97.5	81.3	120	953.4	0	0	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: 205793

Sample ID: **MB-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157083**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4									

Sample ID: **LCS-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157084**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	106.8	4	200.0		53.4	45.1	115				

Sample ID: **LCSD-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157085**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.8	4	200.0		51.4	45.1	115	106.8	3.80	20	

Sample ID: **1504545-001BMS**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157113**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	116.5	4	200.0		58.3	40.4	115				

Sample ID: **1504545-001BMSD**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157114**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.8	4	200.0		55.9	40.4	115	116.5	4.12	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: R289299

Sample ID: **MB-R289299** Client ID: Units: **mg/L** Prep Date: Run No: **289299**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289299** Analysis Date: **04/07/2015** Seq No: **6149052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R289299** Client ID: Units: **mg/L** Prep Date: Run No: **289299**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289299** Analysis Date: **04/07/2015** Seq No: **6149053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5215	0.100	0.5000		104	85	115				

Sample ID: **1504444-002EMS** Client ID: **15096-MW-6** Units: **mg/L** Prep Date: Run No: **289299**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289299** Analysis Date: **04/07/2015** Seq No: **6149055**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5324	0.100	0.5000		106	80	120				

Sample ID: **1504444-002EMSD** Client ID: **15096-MW-6** Units: **mg/L** Prep Date: Run No: **289299**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289299** Analysis Date: **04/07/2015** Seq No: **6149056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5488	0.100	0.5000		110	80	120	0.5324	3.03	30	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: R289582

Sample ID: **MB-R289582**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156134**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R289582**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156133**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.57	1.00	25.00		106	90	110				

Sample ID: **1504290-005AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156152**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.00	1.00	25.00	1.189	107	80	120				

Sample ID: **1504290-005AMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156153**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.01	1.00	25.00	1.189	107	80	120	28.00	0.036	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: R289593

Sample ID: **MB-R289593** Client ID: Units: **mg/L** Prep Date: Run No: **289593**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R289593** Analysis Date: **04/07/2015** Seq No: **6156494**

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

Sample ID: **LCS-R289593** Client ID: Units: **mg/L** Prep Date: Run No: **289593**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R289593** Analysis Date: **04/07/2015** Seq No: **6156493**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.597	0.25	5.000		91.9	90	110				
Sulfate	24.26	1.0	25.00		97.0	90	110				

Sample ID: **1504488-001CMS** Client ID: Units: **mg/L** Prep Date: Run No: **289593**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R289593** Analysis Date: **04/07/2015** Seq No: **6156507**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.272	0.25	5.000	0.4757	95.9	90	110				
Sulfate	25.38	1.0	25.00		102	90	110				

Sample ID: **1504488-004CMS** Client ID: Units: **mg/L** Prep Date: Run No: **289593**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R289593** Analysis Date: **04/07/2015** Seq No: **6156509**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.180	0.25	5.000	0.4347	94.9	90	110				
Sulfate	25.86	1.0	25.00		103	90	110				

Sample ID: **1504488-001CMSD** Client ID: Units: **mg/L** Prep Date: Run No: **289593**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R289593** Analysis Date: **04/07/2015** Seq No: **6156508**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.246	0.25	5.000	0.4757	95.4	90	110	5.272	0.491	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hillshire Farms
Workorder: 1504444

ANALYTICAL QC SUMMARY REPORT

BatchID: R289593

Sample ID: **1504488-001CMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date:
BatchID: **R289593** Analysis Date: **04/07/2015**
Run No: **289593**
Seq No: **6156508**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	24.12	1.0	25.00		96.5	90	110	25.38	5.11	20	

Qualifiers:

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

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 4/20/15

Project Number: 145686-020-004 Project Name/Client: Hillshire Farms

Project Manager: T. Reifenberger Sampled By: G. Skala

Laboratory: AES Order No.: 1504543

2. SAMPLE INFORMATION

Purpose of sampling: Semiannual sampling

Total number of samples: 9

☐ Groundwater: 7 ☐ Soil: _____ ☐ Soil Gas: _____ ☐ Trip Blank: 1

☐ Surface water: _____ ☐ Sediment: _____ ☐ Other: _____ ☐ Field Blank: _____

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☐ Equip Blank: 1

Analyses requested: VOCs, TOC, nitrate, sulfate, ferrous iron, methane

Method detection limits (MDLs) or reporting limits (RLs) requested: NA

Duplicates: None

3. DATA VERIFICATION

Check yes or no. Refer to applicable Data Verification Guidelines to determine appropriate action.

☑ Yes ☐ No ☐ NA **Was the Chain of Custody intact?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were custody seals intact on samples bottles and/or coolers as necessary?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were cooler temperatures within the acceptable range of 0-6°C?**

If no: Notes: 3.1

☑ Yes ☐ No ☐ NA **Were samples physically and chemically preserved properly (i.e. no bubbles in VOC vials)**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Was the case narrative of the analytical report free of any quality issues, discrepancies, etc.?**

If no: Notes: Refer to Comment No. 1

☐ Yes ☑ No ☐ NA **Were all samples labeled, analyzed, and reported correctly? (no samples held, no wrong analyses, etc.)**

If no: If within holding time, call lab immediately. Notes: Refer to Comment No. 2

☑ Yes ☐ No ☐ NA **Were all samples analyzed within holding time?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were appropriate analytes reported?**

If no: Notes: _____

☐ Yes ☐ No ☑ NA **Were soil and/or sediment concentrations reported appropriately? (DW vs WW)**

If no: Call lab immediately to verify. Notes: _____

☐ Yes ☐ No ☑ NA **If analyzed for the following parameters, was the following true for all analytes?**

- ☐ Yes ☐ No ☑ NA Total metals ≥ Dissolved metals
- ☐ Yes ☐ No ☑ NA TKN > Organic nitrogen
- ☐ Yes ☐ No ☑ NA TKN > Ammonia (NH_3)
- ☐ Yes ☐ No ☑ NA COD > TOC
- ☐ Yes ☐ No ☑ NA COD > BOD

If no: Report to project manager and contact lab's QA/QC manager if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were method detection limits (MDL), reporting limits (RLs), and/or dilution factors appropriate?**

If no: Report to project manager and contact lab if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were surrogate % recoveries within the acceptable range of LCL ≤ x ≤ UCL?**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Were target analytes detected in any field, equipment, and/or laboratory blanks?**

If yes: Notes: _____

Brown AND Caldwell : **LABORATORY DATA VERIFICATION FORM**

☐ Yes ☐ No ☑ NA **Were any target analytes detected below practical quantitation limits (PQLs)?**

If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any sample duplicates collected?**

If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any laboratory duplicates reported for project samples?**

If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any matrix spikes reported for project samples?**

If yes: Notes: _____

☑ Yes ☐ No ☐ NA **Were any laboratory control samples reported?**

If yes: Notes: No issues to report

☐ Yes ☑ No ☐ NA **Were calibration standards reported?**

If yes: Notes: _____

4. COMMENTS & SUMMARY OF ACTIONS TAKEN (Attach additional pages if necessary)

Comment No. 1: According to the case narrative, the ferrous iron method used by the laboratory was a field applicable method. The use of this method in the laboratory is therefore a deviation from the method. However, no quality control samples indicated issues with the data. Therefore, no further action required.

Comment No. 2: The sample IDS for samples 1504543-004 and -005 were incorrect. The following action is required: Contact the lab and have these sample IDs updated to match the COC. Specifically, the sample ID for -004 should be changed from "15097-MW-4B" to "15096-MW-4B", and the sample ID for -005 should be changed from "15097-MW-21" to "15096-MW-21".

Sarah E Jones

Signature of Data Verifier

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 14, 2015

TRISH REIFENBERGER P.E.
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3630
FAX: (770) 396-9495

RE: Hill Shire Farms

Dear TRISH REIFENBERGER P.E.: Order No: 1504543

Analytical Environmental Services, Inc. received 9 samples on 4/7/2015 7:00:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1504543

Date: 4.7.15 Page 1 of 1

COMPANY: Brown & Caldwell

ADDRESS: 990 Hammond Dr, Ste 900 Atlanta, Ga

PHONE:

FAX:

SAMPLED BY: Skala, Steele

SIGNATURE: M/Skala IV

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	Methane	Total Organic Carbon	ferrous iron	nitrate/sulfate	No # of Containers	REMARKS
	PRESERVATION (See codes)						HI	AI	SI	NA	NA		
1	15097-OW-74A	4-7-15	1030	X		GW	X					2	
2	15097-MW-9b	4-7-15	1240	X		GW	X					2	
3	15097-OW-72A	4-7-15	1335	X		GW	X					2	
4	15096-MW-4b	4-6-15	1050	X		GW	X					2	
5	15096-MW-21	4-6-15	1515	X		GW	X					2	
6	15097-SMW-2	4-7-15	1025	X		GW	X					2	
7	15097-EB	4-7-15	1045	X		DW	X					2	
8	15097-MW-12	4-7-15	1400	X		GW	X	X	X	X	X	7	
9	Trip Blank	—	—	X		DW	X					2	
10													
11													
12													
13													
14													

ANALYSIS REQUESTED

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

RELINQUISHED BY / DATE/TIME
1: M/Skala IV 4-7-15 1900
2:
3:

RECEIVED BY / DATE/TIME
1: Joane Pacurar 4/7/15 1900
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:
Short hold time
Ferrous Iron

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

PROJECT INFORMATION
PROJECT NAME: Hillshire Farms
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: TReifenberger@brwncald.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

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

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

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

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

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab ID: 1504543

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Sample 15097-MW-12 was analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-OW-74A
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:30:00 AM
Lab ID:	1504543-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 12:03	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 12:03	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
cis-1,2-Dichloroethene	140	5.0		ug/L	205693	1	04/09/2015 12:03	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 12:03	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-OW-74A
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:30:00 AM
Lab ID:	1504543-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Trichloroethene	14	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:03	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 12:03	GK
Surr: 4-Bromofluorobenzene	96.9	70.6-123		%REC	205693	1	04/09/2015 12:03	GK
Surr: Dibromofluoromethane	111	78.7-124		%REC	205693	1	04/09/2015 12:03	GK
Surr: Toluene-d8	105	81.3-120		%REC	205693	1	04/09/2015 12:03	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-9B
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 12:40:00 PM
Lab ID:	1504543-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,3-Dichlorobenzene	23	5.0		ug/L	205693	1	04/09/2015 12:27	GK
1,4-Dichlorobenzene	36	5.0		ug/L	205693	1	04/09/2015 12:27	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 12:27	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 12:27	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Chlorobenzene	230	50		ug/L	205693	10	04/09/2015 18:16	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
Ethylbenzene	31	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 12:27	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
m,p-Xylene	45	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
o-Xylene	17	5.0		ug/L	205693	1	04/09/2015 12:27	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-9B
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 12:40:00 PM
Lab ID:	1504543-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:27	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 12:27	GK
Surr: 4-Bromofluorobenzene	100	70.6-123		%REC	205693	1	04/09/2015 12:27	GK
Surr: 4-Bromofluorobenzene	98	70.6-123		%REC	205693	10	04/09/2015 18:16	GK
Surr: Dibromofluoromethane	110	78.7-124		%REC	205693	1	04/09/2015 12:27	GK
Surr: Dibromofluoromethane	106	78.7-124		%REC	205693	10	04/09/2015 18:16	GK
Surr: Toluene-d8	105	81.3-120		%REC	205693	1	04/09/2015 12:27	GK
Surr: Toluene-d8	103	81.3-120		%REC	205693	10	04/09/2015 18:16	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-OW-72A
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 3:35:00 PM
Lab ID:	1504543-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,1-Dichloroethane	12	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2-Dichlorobenzene	16	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2-Dichloroethane	5.2	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 12:52	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 12:52	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
cis-1,2-Dichloroethene	1200	50		ug/L	205693	10	04/09/2015 18:43	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 12:52	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-OW-72A
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 3:35:00 PM
Lab ID:	1504543-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Tetrachloroethene	14	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
trans-1,2-Dichloroethene	8.8	5.0		ug/L	205693	1	04/09/2015 12:52	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Trichloroethene	38	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 12:52	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 12:52	GK
Surr: 4-Bromofluorobenzene	96.7	70.6-123		%REC	205693	1	04/09/2015 12:52	GK
Surr: 4-Bromofluorobenzene	97.3	70.6-123		%REC	205693	10	04/09/2015 18:43	GK
Surr: Dibromofluoromethane	107	78.7-124		%REC	205693	10	04/09/2015 18:43	GK
Surr: Dibromofluoromethane	109	78.7-124		%REC	205693	1	04/09/2015 12:52	GK
Surr: Toluene-d8	103	81.3-120		%REC	205693	1	04/09/2015 12:52	GK
Surr: Toluene-d8	103	81.3-120		%REC	205693	10	04/09/2015 18:43	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	Incorrect sample ID; should be "15096-MW-4B"	**Client Sample ID:**	15097-MW-4B
Project Name:	Hill Shire Farms		**Collection Date:**	4/6/2015 10:50:00 AM
Lab ID:	1504543-004		**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 13:16	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 13:16	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 13:16	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-4B
Project Name:	Hill Shire Farms	**Collection Date:**	4/6/2015 10:50:00 AM
Lab ID:	1504543-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:16	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 13:16	GK
Surr: 4-Bromofluorobenzene	97.3	70.6-123		%REC	205693	1	04/09/2015 13:16	GK
Surr: Dibromofluoromethane	108	78.7-124		%REC	205693	1	04/09/2015 13:16	GK
Surr: Toluene-d8	103	81.3-120		%REC	205693	1	04/09/2015 13:16	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	Incorrect sample ID; should be "15096-MW-21"	**Client Sample ID:**	15097-MW-21
Project Name:	Hill Shire Farms		**Collection Date:**	4/6/2015 6:15:00 PM
Lab ID:	1504543-005		**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 13:41	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 13:41	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 13:41	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-21
Project Name:	Hill Shire Farms	**Collection Date:**	4/6/2015 6:15:00 PM
Lab ID:	1504543-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 13:41	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 13:41	GK
Surr: 4-Bromofluorobenzene	97.6	70.6-123		%REC	205693	1	04/09/2015 13:41	GK
Surr: Dibromofluoromethane	108	78.7-124		%REC	205693	1	04/09/2015 13:41	GK
Surr: Toluene-d8	103	81.3-120		%REC	205693	1	04/09/2015 13:41	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-SMW-2
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:25:00 AM
Lab ID:	1504543-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 15:26	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 15:26	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
Chloroform	5.5	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 15:26	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-SMW-2
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:25:00 AM
Lab ID:	1504543-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:26	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 15:26	GK
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	205693	1	04/09/2015 15:26	GK
Surr: Dibromofluoromethane	111	78.7-124		%REC	205693	1	04/09/2015 15:26	GK
Surr: Toluene-d8	104	81.3-120		%REC	205693	1	04/09/2015 15:26	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-EB
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:45:00 AM
Lab ID:	1504543-007	**Matrix:**	Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 11:39	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 11:39	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 11:39	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-EB
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 10:45:00 AM
Lab ID:	1504543-007	**Matrix:**	Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:39	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 11:39	GK
Surr: 4-Bromofluorobenzene	97	70.6-123		%REC	205693	1	04/09/2015 11:39	GK
Surr: Dibromofluoromethane	112	78.7-124		%REC	205693	1	04/09/2015 11:39	GK
Surr: Toluene-d8	104	81.3-120		%REC	205693	1	04/09/2015 11:39	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-12
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 2:00:00 PM
Lab ID:	1504543-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	4.93	1.00		mg/L	R289582	1	04/09/2015 19:00	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 15:50	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 15:50	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
cis-1,2-Dichloroethene	21	5.0		ug/L	205693	1	04/09/2015 15:50	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 15:50	GK
Isopropylbenzene	9.4	5.0		ug/L	205693	1	04/09/2015 15:50	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15097-MW-12
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015 2:00:00 PM
Lab ID:	1504543-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 15:50	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 15:50	GK
Surr: 4-Bromofluorobenzene	99.5	70.6-123		%REC	205693	1	04/09/2015 15:50	GK
Surr: Dibromofluoromethane	112	78.7-124		%REC	205693	1	04/09/2015 15:50	GK
Surr: Toluene-d8	105	81.3-120		%REC	205693	1	04/09/2015 15:50	GK
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R289689	1	04/08/2015 10:22	JW
Sulfate	4.4	1.0		mg/L	R289689	1	04/08/2015 10:22	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	120	4		ug/L	205793	1	04/10/2015 12:16	AB
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	4.78	1.00		mg/L	R289299	10	04/08/2015 07:55	OM

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015
Lab ID:	1504543-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
2-Butanone	BRL	50		ug/L	205693	1	04/09/2015 11:14	GK
2-Hexanone	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
Acetone	BRL	50		ug/L	205693	1	04/09/2015 11:14	GK
Benzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Bromodichloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Bromoform	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Bromomethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Carbon disulfide	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Chlorobenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Chloroethane	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
Chloroform	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Chloromethane	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Cyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Dibromochloromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
Ethylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Freon-113	BRL	10		ug/L	205693	1	04/09/2015 11:14	GK
Isopropylbenzene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
m,p-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Methyl acetate	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Methylcyclohexane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Methylene chloride	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
o-Xylene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 14-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/7/2015
Lab ID:	1504543-009	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Tetrachloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Toluene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Trichloroethene	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	205693	1	04/09/2015 11:14	GK
Vinyl chloride	BRL	2.0		ug/L	205693	1	04/09/2015 11:14	GK
Surr: 4-Bromofluorobenzene	99	70.6-123		%REC	205693	1	04/09/2015 11:14	GK
Surr: Dibromofluoromethane	112	78.7-124		%REC	205693	1	04/09/2015 11:14	GK
Surr: Toluene-d8	102	81.3-120		%REC	205693	1	04/09/2015 11:14	GK

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown + Caldwell Work Order Number 1504543

Checklist completed by Ioana Pacurar 4/17/15
Signature Date

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

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

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

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

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

Cooler #1 3.1°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

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

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

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

Adjusted? _____ Checked by AP

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Lab Order: 1504543

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504543-001A	15097-OW-74A	4/7/2015 10:30:00AM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-002A	15097-MW-9B	4/7/2015 12:40:00PM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-003A	15097-OW-72A	4/7/2015 3:35:00PM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-004A	15097-MW-4B	4/6/2015 10:50:00AM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-005A	15097-MW-21	4/6/2015 6:15:00PM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-006A	15097-SMW-2	4/7/2015 10:25:00AM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-007A	15097-EB	4/7/2015 10:45:00AM	Drinking Water	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-008A	15097-MW-12	4/7/2015 2:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015
1504543-008B	15097-MW-12	4/7/2015 2:00:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57 AM	04/10/2015
1504543-008C	15097-MW-12	4/7/2015 2:00:00PM	Groundwater	Total Organic Carbon (TOC)			04/09/2015
1504543-008D	15097-MW-12	4/7/2015 2:00:00PM	Groundwater	Ferrous Iron			04/08/2015
1504543-008E	15097-MW-12	4/7/2015 2:00:00PM	Groundwater	ION SCAN			04/08/2015
1504543-009A	TRIP BLANK	4/7/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/8/2015 10:21:00 AM	04/09/2015

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: 205693

Sample ID: **MB-205693** Client ID: Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6152131**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: 205693

Sample ID: **MB-205693** Client ID: Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6152131**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.00	0	50.00		82.0	70.6	123				
Surr: Dibromofluoromethane	52.26	0	50.00		105	78.7	124				
Surr: Toluene-d8	49.60	0	50.00		99.2	81.3	120				

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: 205693

Sample ID: **LCS-205693** Client ID: Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6152130**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.02	5.0	50.00		114	64.2	137				
Benzene	53.30	5.0	50.00		107	72.8	128				
Chlorobenzene	52.77	5.0	50.00		106	72.3	126				
Toluene	53.57	5.0	50.00		107	74.9	127				
Trichloroethene	50.75	5.0	50.00		102	70.5	134				
Surr: 4-Bromofluorobenzene	45.14	0	50.00		90.3	70.6	123				
Surr: Dibromofluoromethane	48.75	0	50.00		97.5	78.7	124				
Surr: Toluene-d8	48.35	0	50.00		96.7	81.3	120				

Sample ID: **1504542-001AMS** Client ID: Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6153306**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	7097	500	5000		142	60.5	156				
Benzene	5902	500	5000		118	70	135				
Chlorobenzene	5724	500	5000		114	70.5	132				
Toluene	6113	500	5000		122	70.5	137				
Trichloroethene	5702	500	5000		114	71.8	139				
Surr: 4-Bromofluorobenzene	4841	0	5000		96.8	70.6	123				
Surr: Dibromofluoromethane	5342	0	5000		107	78.7	124				
Surr: Toluene-d8	5044	0	5000		101	81.3	120				

Sample ID: **1504542-001AMSD** Client ID: Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6153322**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	6632	500	5000		133	60.5	156	7097	6.77	20	
Benzene	5783	500	5000		116	70	135	5902	2.04	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: 205693

Sample ID: **1504542-001AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **04/08/2015** Run No: **289393**
BatchID: **205693** Analysis Date: **04/08/2015** Seq No: **6153322**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	5421	500	5000		108	70.5	132	5724	5.44	20	
Toluene	5977	500	5000		120	70.5	137	6113	2.25	20	
Trichloroethene	5379	500	5000		108	71.8	139	5702	5.83	20	
Surr: 4-Bromofluorobenzene	4956	0	5000		99.1	70.6	123	4841	0	0	
Surr: Dibromofluoromethane	5304	0	5000		106	78.7	124	5342	0	0	
Surr: Toluene-d8	5076	0	5000		102	81.3	120	5044	0	0	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: 205793

Sample ID: **MB-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157083**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4									

Sample ID: **LCS-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157084**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	106.8	4	200.0		53.4	45.1	115				

Sample ID: **LCSD-205793**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157085**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.8	4	200.0		51.4	45.1	115	106.8	3.80	20	

Sample ID: **1504545-001BMS**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157113**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	116.5	4	200.0		58.3	40.4	115				

Sample ID: **1504545-001BMSD**	Client ID:				Units: **ug/L**		Prep Date: **04/10/2015**		Run No: **289614**	
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **205793**		Analysis Date: **04/10/2015**		Seq No: **6157114**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.8	4	200.0		55.9	40.4	115	116.5	4.12	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: R289299

Sample ID: **MB-R289299**	Client ID:				Units: **mg/L**	Prep Date:	Run No: **289299**
SampleType: **MBLK**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R289299**	Analysis Date: **04/07/2015**	Seq No: **6149052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R289299**	Client ID:				Units: **mg/L**	Prep Date:	Run No: **289299**
SampleType: **LCS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R289299**	Analysis Date: **04/07/2015**	Seq No: **6149053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5215	0.100	0.5000		104	85	115				

Sample ID: **1504444-002EMS**	Client ID:				Units: **mg/L**	Prep Date:	Run No: **289299**
SampleType: **MS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R289299**	Analysis Date: **04/07/2015**	Seq No: **6149055**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5324	0.100	0.5000		106	80	120				

Sample ID: **1504444-002EMSD**	Client ID:				Units: **mg/L**	Prep Date:	Run No: **289299**
SampleType: **MSD**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R289299**	Analysis Date: **04/07/2015**	Seq No: **6149056**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.5488	0.100	0.5000		110	80	120	0.5324	3.03	30	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: R289582

Sample ID: **MB-R289582**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156134**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R289582**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156133**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.57	1.00	25.00		106	90	110				

Sample ID: **1504290-005AMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156152**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.00	1.00	25.00	1.189	107	80	120				

Sample ID: **1504290-005AMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289582**	
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) SW9060A**				BatchID: **R289582**		Analysis Date: **04/09/2015**		Seq No: **6156153**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.01	1.00	25.00	1.189	107	80	120	28.00	0.036	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: R289689

Sample ID: **MB-R289689**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289689**	
SampleType: **MBLK**	TestCode: **ION SCAN SW9056A**				BatchID: **R289689**		Analysis Date: **04/08/2015**		Seq No: **6158886**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	BRL	0.25								
Sulfate	BRL	1.0								

Sample ID: **LCS-R289689**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289689**	
SampleType: **LCS**	TestCode: **ION SCAN SW9056A**				BatchID: **R289689**		Analysis Date: **04/08/2015**		Seq No: **6158885**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	4.573	0.25	5.000		91.5	90	110			
Sulfate	24.34	1.0	25.00		97.4	90	110			

Sample ID: **1504620-002BMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289689**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R289689**		Analysis Date: **04/08/2015**		Seq No: **6158914**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	47.72	2.5	50.00		95.4	90	110			
Sulfate	275.7	10	250.0	38.76	94.8	90	110			

Sample ID: **1504622-002BMS**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289689**	
SampleType: **MS**	TestCode: **ION SCAN SW9056A**				BatchID: **R289689**		Analysis Date: **04/08/2015**		Seq No: **6158922**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	48.42	2.5	50.00	3.134	90.6	90	110			
Sulfate	267.2	10	250.0	29.92	94.9	90	110			

Sample ID: **1504620-002BMSD**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **289689**	
SampleType: **MSD**	TestCode: **ION SCAN SW9056A**				BatchID: **R289689**		Analysis Date: **04/08/2015**		Seq No: **6158916**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Nitrate	48.94	2.5	50.00		97.9	90	110	47.72	2.52	20

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504543

ANALYTICAL QC SUMMARY REPORT

BatchID: R289689

Sample ID: **1504620-002BMSD** Client ID:
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **289689**
BatchID: **R289689** Analysis Date: **04/08/2015** Seq No: **6158916**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	279.3	10	250.0	38.76	96.2	90	110	275.7	1.28	20	

Qualifiers:

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

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 4/20/15

Project Number: 145686-020-004 Project Name/Client: Hillshire Farms

Project Manager: T. Reifenberger Sampled By: G. Skala

Laboratory: AES Order No.: 1504639

2. SAMPLE INFORMATION

Purpose of sampling: Semiannual sampling

Total number of samples: 8

☐ Groundwater: 6 ☐ Soil: _____ ☐ Soil Gas: _____ ☐ Trip Blank: 1

☐ Surface water: _____ ☐ Sediment: _____ ☐ Other: _____ ☐ Field Blank: _____

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☐ Equip Blank: 1

Analyses requested: VOCs, TOC, nitrate, sulfate, ferrous iron, methane

Method detection limits (MDLs) or reporting limits (RLs) requested: NA

Duplicates: MW-30 is a field duplicate of MW-8; MW-31 is a field duplicate of MW-9a

3. DATA VERIFICATION

Check yes or no. Refer to applicable Data Verification Guidelines to determine appropriate action.

☑ Yes ☐ No ☐ NA **Was the Chain of Custody intact?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were custody seals intact on samples bottles and/or coolers as necessary?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were cooler temperatures within the acceptable range of 0-6°C?**

If no: Notes: 3.2

☑ Yes ☐ No ☐ NA **Were samples physically and chemically preserved properly (i.e. no bubbles in VOC vials)**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Was the case narrative of the analytical report free of any quality issues, discrepancies, etc.?**

If no: Notes: Refer to Comment No. 1

☑ Yes ☐ No ☐ NA **Were all samples labeled, analyzed, and reported correctly? (no samples held, no wrong analyses, etc.)**

If no: If within holding time, call lab immediately. Notes: _____

☑ Yes ☐ No ☐ NA **Were all samples analyzed within holding time?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were appropriate analytes reported?**

If no: Notes: _____

☐ Yes ☐ No ☑ NA **Were soil and/or sediment concentrations reported appropriately? (DW vs WW)**

If no: Call lab immediately to verify. Notes: _____

☐ Yes ☐ No ☑ NA **If analyzed for the following parameters, was the following true for all analytes?**

- ☐ Yes ☐ No ☑ NA Total metals ≥ Dissolved metals
- ☐ Yes ☐ No ☑ NA TKN > Organic nitrogen
- ☐ Yes ☐ No ☑ NA TKN > Ammonia (NH_3)
- ☐ Yes ☐ No ☑ NA COD > TOC
- ☐ Yes ☐ No ☑ NA COD > BOD

If no: Report to project manager and contact lab's QA/QC manager if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were method detection limits (MDL), reporting limits (RLs), and/or dilution factors appropriate?**

If no: Report to project manager and contact lab if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were surrogate % recoveries within the acceptable range of LCL ≤ x ≤ UCL?**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Were target analytes detected in any field, equipment, and/or laboratory blanks?**

If yes: Notes: _____

Brown AND Caldwell : **LABORATORY DATA VERIFICATION FORM**

☐ Yes ☐ No ☑ NA **Were any target analytes detected below practical quantitation limits (PQLs)?**

If yes: Notes: _____

☑ Yes ☐ No ☐ NA **Were any sample duplicates collected?**

If yes: Notes: Refer to Comment No. 2

☐ Yes ☑ No ☐ NA **Were any laboratory duplicates reported for project samples?**

If yes: Notes: _____

☑ Yes ☐ No ☐ NA **Were any matrix spikes reported for project samples?**

If yes: Notes: Refer to Comment No. 3

☑ Yes ☐ No ☐ NA **Were any laboratory control samples reported?**

If yes: Notes: No issues to report

☐ Yes ☑ No ☐ NA **Were calibration standards reported?**

If yes: Notes: _____

4. COMMENTS & SUMMARY OF ACTIONS TAKEN (Attach additional pages if necessary)

Comment No. 1: According to the case narrative, the ferrous iron method used by the laboratory was a field applicable method. The use of this method in the laboratory is therefore a deviation from the method. However, no quality control samples indicated issues with the data. Therefore, no further action required.

Comment No. 2: Refer to the attached sheet for a detailed duplicate comparison and calculation of relative percent differences (RPDs). All calculated RPDs were within acceptable control limits. No further action required.

Comment No. 3: In the matrix spike (MS) and matrix spike duplicate (MSD) samples for 1504639-005, recoveries of ferrous iron were less than 10 percent. This analyte was not detected in the parent sample. Therefore, the following action is required: Qualify the non-detect ferrous iron results in the parent sample (MW-8) as unusable (UR).

In addition, recoveries of sulfate were less than the lower control limit. This analyte was detected in the parent sample. The following action is required: Qualify the sulfate results in the parent sample (MW-8) as estimated (J).

Sarah E Jones

Signature of Data Verifier

LABORATORY DATA VERIFICATION

Sample Duplicate Comparison

PROJECT INFORMATION

Project Number:	145686-020-004	**Project Name:**	Hillshire Farms	**Task/Purpose of Sampling:**	Semiannual Sampling
Project Manager:	T. Reifenberger	**Client:**	Hillshire Farms		
Laboratory:	AES	**Data Report:**	1504639		

DUPLICATE INFORMATION

Parent Sample ID:	15098-MW-8	**Date/Time:**	4/8/15 1445	**Matrix:**	Groundwater
Duplicate Sample ID:	15098-MW-30	**Date/Time:**	4/8/15 xxxx	**Matrix:**	Groundwater

Analytes (Units)	Analytical Results[a]		Relative Percent Difference (RPD) Comparison		Reporting Limit (RL) Comparison (If Needed)					Actions Required
	15098-MW-8	15098-MW-30	RPD	Inorg: RPD > 20%? Org: RPD > 30%?	15098-MW-8		15098-MW-30		Either Sample Conc. ≥ 2X RLs?	
					RL	2x RL	RL	2x RL		
1,1-Dichloroethane (ug/L)	38	38	0%	NO						No further action required.
1,2-Dichlorobenzene	59	58	2%	NO						No further action required.
1,3-Dichlorobenzene	16	16	0%	NO						No further action required.
1,4-Dichlorobenzene	13	12	8%	NO						No further action required.
cis-1,2-Dichloroethene	4600	4700	2%	NO						No further action required.
Tetrachloroethene	20	18	11%	NO						No further action required.
trans-1,2-Dichloroethene	34	35	3%	NO						No further action required.
Trichloroethene	15	14	7%	NO						No further action required.
Vinyl chloride	4.8	5.3	10%	NO						No further action required.

LABORATORY DATA VERIFICATION

Sample Duplicate Comparison

PROJECT INFORMATION

Project Number:	145686-020-004	**Project Name:**	Hillshire Farms	**Task/Purpose of Sampling:**	Semiannual Sampling
Project Manager:	T. Reifenberger	**Client:**	Hillshire Farms		
Laboratory:	AES	**Data Report:**	1504639		

DUPLICATE INFORMATION

Parent Sample ID:	15098-MW-9a	**Date/Time:**	4/8/15 1420	**Matrix:**	Groundwater
Duplicate Sample ID:	15098-MW-31	**Date/Time:**	4/8/15 xxxx	**Matrix:**	Groundwater

Analytes (Units)	Analytical Results[a]		Relative Percent Difference (RPD) Comparison		Reporting Limit (RL) Comparison (If Needed)					Actions Required
	15098-MW-9a	15098-MW-31	RPD	Inorg: RPD > 20%? Org: RPD > 30%?	15098-MW-9a		15098-MW-31		Either Sample Conc. ≥ 2X RLs?	
					RL	2x RL	RL	2x RL		
1,2-Dichlorobenzene (ug/L)	9.3	9.3	0%	**NO**						No further action required.
1,3-Dichlorobenzene	14	15	7%	**NO**						No further action required.
1,4-Dichlorobenzene	22	23	4%	**NO**						No further action required.
Chlorobenzene	150	150	0%	**NO**						No further action required.
Chloroform	8.7	8.6	1%	**NO**						No further action required.
Tetrachloroethene	16	16	0%	**NO**						No further action required.

[a] Results in red text and italics were below reporting limits. Values are reporting limits for comparison purposes only.

Relative Percent Difference (RPD) is a quantitative indicator of quality assurance and quality control (QA/QC) for repeated measurements (i.e. duplicates) where the outcome is expected to be the same. It is calculated using the following equation:

$$RPD = \left| \frac{x_1 - x_2}{(x_1 + x_2)/2} \right| \times 100$$

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 15, 2015

TRISH REIFENBERGER P.E.
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3630
FAX: (770) 396-9495

RE: Hill Shire Farms

Dear TRISH REIFENBERGER P.E.: Order No: 1504639

Analytical Environmental Services, Inc. received 8 samples on 4/8/2015 4:20:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

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

CHAIN OF CUSTODY

Work Order: 1504639

Date: 4-8-15 Page 1 of 1

COMPANY: Brown + Caldwell	ADDRESS: 990 Hammond Dr, Ste 400 Atlanta, Ga 30328
PHONE:	FAX:
SAMPLED BY: Skala, Steele	SIGNATURE: George Skala IV

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	Methane	Manganese, Ferrous Iron	Nitrate/Sulfate	Total Organic Carbon	REMARKS	No # of Containers
	PRESERVATION (See codes)						HCl	H2SO4	HNO3	NA	NaOH	S+I						
1	15098-SMW-1	4-8-15	1020	X		GW	X								2
2	15098-EB	4-8-15	1040	X		W	X								2
3	15098-MW-9a	4-8-15	1420	X		GW	X								2
4	~~15098-DUP~~	~~4-8-15~~	~~1200~~	~~X~~		~~GW~~	~~X~~								
5	15098-MW-31	4-8-15	1200	X		GW	X								2
6	15098-MW-8	4-8-15	1445	X		GW	X	X	X	X	X	X			8
7	15098-MW-30	4-8-15	1200	X		GW	X		X						3
8	15098-MW-2	4-8-15	1100	X		GW	X								2
9	Trip Blank	—	—	X		W	X								2
10															
11															
12															
13															
14															

ANALYSIS REQUESTED

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: George Skala IV	4-8-15 1620	1: [signature]	4/8/15 4:00
2:		2:	
3:		3:	

PROJECT INFORMATION
PROJECT NAME: Hillshire Farms
PROJECT #:
SITE ADDRESS: Smyrna GA
SEND REPORT TO: TReifenberger@brwncald.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers:

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

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

SPECIAL INSTRUCTIONS/COMMENTS:
Short hold times on Ferrous Iron

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

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

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

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab ID: 1504639

Case Narrative

Ferrous Iron by SM3500Fe-B:

Method 3500Fe-B as listed in Standard Methods for the Examination of Water and Wastewater 22nd Edition is applicable for analyzing Ferrous Iron in the field. Sample "15098-MW-8" was analyzed in the laboratory which is a deviation from the method.

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-SMW-1
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 10:20:00 AM
Lab ID:	1504639-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 16:43	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 16:43	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 16:43	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-SMW-1
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 10:20:00 AM
Lab ID:	1504639-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Tetrachloroethene	31	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 16:43	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 16:43	CH
Surr: 4-Bromofluorobenzene	76	70.6-123		%REC	205787	1	04/09/2015 16:43	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205787	1	04/09/2015 16:43	CH
Surr: Toluene-d8	103	81.3-120		%REC	205787	1	04/09/2015 16:43	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-EB
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 10:40:00 AM
Lab ID:	1504639-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 17:07	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 17:07	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 17:07	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-EB
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 10:40:00 AM
Lab ID:	1504639-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:07	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 17:07	CH
Surr: 4-Bromofluorobenzene	76.1	70.6-123		%REC	205787	1	04/09/2015 17:07	CH
Surr: Dibromofluoromethane	115	78.7-124		%REC	205787	1	04/09/2015 17:07	CH
Surr: Toluene-d8	102	81.3-120		%REC	205787	1	04/09/2015 17:07	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-9A
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 2:20:00 PM
Lab ID:	1504639-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2-Dichlorobenzene	9.3	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,3-Dichlorobenzene	14	5.0		ug/L	205787	1	04/09/2015 17:30	CH
1,4-Dichlorobenzene	22	5.0		ug/L	205787	1	04/09/2015 17:30	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 17:30	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 17:30	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Chlorobenzene	150	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
Chloroform	8.7	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 17:30	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-9A
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 2:20:00 PM
Lab ID:	1504639-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Tetrachloroethene	16	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:30	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 17:30	CH
Surr: 4-Bromofluorobenzene	83.4	70.6-123		%REC	205787	1	04/09/2015 17:30	CH
Surr: Dibromofluoromethane	112	78.7-124		%REC	205787	1	04/09/2015 17:30	CH
Surr: Toluene-d8	102	81.3-120		%REC	205787	1	04/09/2015 17:30	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-31
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 12:00:00 PM
Lab ID:	1504639-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2-Dichlorobenzene	9.3	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,3-Dichlorobenzene	15	5.0		ug/L	205787	1	04/09/2015 17:54	CH
1,4-Dichlorobenzene	23	5.0		ug/L	205787	1	04/09/2015 17:54	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 17:54	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 17:54	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Chlorobenzene	150	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
Chloroform	8.6	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 17:54	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-31
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 12:00:00 PM
Lab ID:	1504639-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Tetrachloroethene	16	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 17:54	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 17:54	CH
Surr: 4-Bromofluorobenzene	81.9	70.6-123		%REC	205787	1	04/09/2015 17:54	CH
Surr: Dibromofluoromethane	116	78.7-124		%REC	205787	1	04/09/2015 17:54	CH
Surr: Toluene-d8	103	81.3-120		%REC	205787	1	04/09/2015 17:54	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-8
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 2:45:00 PM
Lab ID:	1504639-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	24.8	1.00		mg/L	R289683	1	04/10/2015 14:31	YS
TCL VOLATILE ORGANICS SW8260B					**(SW5030B)**			
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,1-Dichloroethane	38	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2-Dichlorobenzene	59	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,3-Dichlorobenzene	16	5.0		ug/L	205787	1	04/09/2015 18:41	CH
1,4-Dichlorobenzene	13	5.0		ug/L	205787	1	04/09/2015 18:41	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 18:41	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 18:41	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
cis-1,2-Dichloroethene	4600	500		ug/L	205787	100	04/10/2015 13:39	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 18:41	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-8
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 2:45:00 PM
Lab ID:	1504639-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Tetrachloroethene	20	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
trans-1,2-Dichloroethene	34	5.0		ug/L	205787	1	04/09/2015 18:41	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Trichloroethene	15	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:41	CH
Vinyl chloride	4.8	2.0		ug/L	205787	1	04/09/2015 18:41	CH
Surr: 4-Bromofluorobenzene	80.8	70.6-123		%REC	205787	1	04/09/2015 18:41	CH
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	205787	100	04/10/2015 13:39	CH
Surr: Dibromofluoromethane	110	78.7-124		%REC	205787	100	04/10/2015 13:39	CH
Surr: Dibromofluoromethane	117	78.7-124		%REC	205787	1	04/09/2015 18:41	CH
Surr: Toluene-d8	100	81.3-120		%REC	205787	1	04/09/2015 18:41	CH
Surr: Toluene-d8	103	81.3-120		%REC	205787	100	04/10/2015 13:39	CH
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R289768	1	04/08/2015 22:01	JW
Sulfate	62	2.0	J	mg/L	R289768	2	04/09/2015 10:47	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	84	4		ug/L	205793	1	04/10/2015 13:10	AB
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100	UR	mg/L	R289476	1	04/09/2015 09:00	OM
METALS, TOTAL SW6010C				**(SW3010A)**				
Manganese	16.1	0.0150		mg/L	205725	1	04/09/2015 18:58	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-30
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 12:00:00 PM
Lab ID:	1504639-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,1-Dichloroethane	38	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2-Dichlorobenzene	58	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,3-Dichlorobenzene	16	5.0		ug/L	205787	1	04/09/2015 19:05	CH
1,4-Dichlorobenzene	12	5.0		ug/L	205787	1	04/09/2015 19:05	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 19:05	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 19:05	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
cis-1,2-Dichloroethene	4700	500		ug/L	205787	100	04/10/2015 14:04	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 19:05	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-30
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 12:00:00 PM
Lab ID:	1504639-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Tetrachloroethene	18	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
trans-1,2-Dichloroethene	35	5.0		ug/L	205787	1	04/09/2015 19:05	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Trichloroethene	14	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 19:05	CH
Vinyl chloride	5.3	2.0		ug/L	205787	1	04/09/2015 19:05	CH
Surr: 4-Bromofluorobenzene	82.6	70.6-123		%REC	205787	1	04/09/2015 19:05	CH
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	205787	100	04/10/2015 14:04	CH
Surr: Dibromofluoromethane	108	78.7-124		%REC	205787	100	04/10/2015 14:04	CH
Surr: Dibromofluoromethane	117	78.7-124		%REC	205787	1	04/09/2015 19:05	CH
Surr: Toluene-d8	99.3	81.3-120		%REC	205787	1	04/09/2015 19:05	CH
Surr: Toluene-d8	101	81.3-120		%REC	205787	100	04/10/2015 14:04	CH
METALS, TOTAL SW6010C				**(SW3010A)**				
Manganese	16.1	0.0150		mg/L	205725	1	04/09/2015 19:05	JL

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-2
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 11:00:00 AM
Lab ID:	1504639-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	17	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,1-Dichloroethane	8.6	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,1-Dichloroethene	11	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
2-Butanone	BRL	50		ug/L	205787	1	04/09/2015 18:17	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
Acetone	BRL	50		ug/L	205787	1	04/09/2015 18:17	CH
Benzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Chloroethane	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Chloromethane	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
cis-1,2-Dichloroethene	110	5.0		ug/L	205787	1	04/09/2015 18:17	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Freon-113	BRL	10		ug/L	205787	1	04/09/2015 18:17	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15098-MW-2
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015 11:00:00 AM
Lab ID:	1504639-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Toluene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Trichloroethene	19	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/09/2015 18:17	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/09/2015 18:17	CH
Surr: 4-Bromofluorobenzene	82.2	70.6-123		%REC	205787	1	04/09/2015 18:17	CH
Surr: Dibromofluoromethane	119	78.7-124		%REC	205787	1	04/09/2015 18:17	CH
Surr: Toluene-d8	105	81.3-120		%REC	205787	1	04/09/2015 18:17	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015
Lab ID:	1504639-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
2-Butanone	BRL	50		ug/L	205787	1	04/13/2015 16:16	CH
2-Hexanone	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
Acetone	BRL	50		ug/L	205787	1	04/13/2015 16:16	CH
Benzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Bromodichloromethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Bromoform	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Bromomethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Carbon disulfide	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Carbon tetrachloride	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Chlorobenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Chloroethane	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
Chloroform	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Chloromethane	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Cyclohexane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Dibromochloromethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Dichlorodifluoromethane	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
Ethylbenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Freon-113	BRL	10		ug/L	205787	1	04/13/2015 16:16	CH
Isopropylbenzene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
m,p-Xylene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Methyl acetate	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Methylcyclohexane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Methylene chloride	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
o-Xylene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 15-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/8/2015
Lab ID:	1504639-008	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Tetrachloroethene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Toluene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Trichloroethene	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205787	1	04/13/2015 16:16	CH
Vinyl chloride	BRL	2.0		ug/L	205787	1	04/13/2015 16:16	CH
Surr: 4-Bromofluorobenzene	77.8	70.6-123		%REC	205787	1	04/13/2015 16:16	CH
Surr: Dibromofluoromethane	113	78.7-124		%REC	205787	1	04/13/2015 16:16	CH
Surr: Toluene-d8	100	81.3-120		%REC	205787	1	04/13/2015 16:16	CH

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown+Caldwell Work Order Number 1504639

Checklist completed by Katie Forum 4/18/15
Signature Date

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

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

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

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

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

Cooler #1 3.2°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes ✓ No __

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

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

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

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

Adjusted? _____ Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Lab Order: 1504639

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504639-001A	15098-SMW-1	4/8/2015 10:20:00AM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-002A	15098-EB	4/8/2015 10:40:00AM	Aqueous	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-003A	15098-MW-9A	4/8/2015 2:20:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-004A	15098-MW-31	4/8/2015 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-005A	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-005A	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/10/2015
1504639-005B	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	GC Analysis of Gaseous Samples		4/10/2015 11:03:57 AM	04/10/2015
1504639-005C	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	TOTAL METALS BY ICP		4/9/2015 10:45:00 AM	04/09/2015
1504639-005D	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	Ferrous Iron			04/09/2015
1504639-005E	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	ION SCAN			04/08/2015
1504639-005E	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	ION SCAN			04/09/2015
1504639-005F	15098-MW-8	4/8/2015 2:45:00PM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504639-006A	15098-MW-30	4/8/2015 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-006A	15098-MW-30	4/8/2015 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/10/2015
1504639-006B	15098-MW-30	4/8/2015 12:00:00PM	Groundwater	TOTAL METALS BY ICP		4/9/2015 10:45:00 AM	04/09/2015
1504639-007A	15098-MW-2	4/8/2015 11:00:00AM	Groundwater	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/09/2015
1504639-008A	TRIP BLANK	4/8/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/9/2015 2:11:00 PM	04/13/2015

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205725

Sample ID: **MB-205725** Client ID: Units: **mg/L** Prep Date: **04/09/2015** Run No: **289633**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **205725** Analysis Date: **04/09/2015** Seq No: **6157623**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	BRL	0.0150									

Sample ID: **LCS-205725** Client ID: Units: **mg/L** Prep Date: **04/09/2015** Run No: **289633**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **205725** Analysis Date: **04/09/2015** Seq No: **6157624**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	1.038	0.0150	1.000		104	80	120				

Sample ID: **1504587-002BMS** Client ID: Not project sample Units: **mg/L** Prep Date: **04/09/2015** Run No: **289633**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **205725** Analysis Date: **04/09/2015** Seq No: **6157626**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	6.258	0.0150	1.000	5.502	75.6	75	125				

Sample ID: **1504587-002BMSD** Client ID: Not project sample Units: **mg/L** Prep Date: **04/09/2015** Run No: **289633**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **205725** Analysis Date: **04/09/2015** Seq No: **6157627**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	6.195	0.0150	1.000	5.502	69.3	75	125	6.258	1.01	20	S

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: **MB-205787** Client ID: Units: **ug/L** Prep Date: **04/09/2015** Run No: **289503**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205787** Analysis Date: **04/09/2015** Seq No: **6156088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: **MB-205787** Client ID: Units: **ug/L** Prep Date: **04/09/2015** Run No: **289503**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205787** Analysis Date: **04/09/2015** Seq No: **6156088**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	39.77	0	50.00		79.5	70.6	123				
Surr: Dibromofluoromethane	55.70	0	50.00		111	78.7	124				
Surr: Toluene-d8	50.15	0	50.00		100	81.3	120				

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: **LCS-205787** Client ID: Units: **ug/L** Prep Date: **04/09/2015** Run No: **289503**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205787** Analysis Date: **04/09/2015** Seq No: **6156087**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	66.75	5.0	50.00		134	64.2	137				
Benzene	54.76	5.0	50.00		110	72.8	128				
Chlorobenzene	53.06	5.0	50.00		106	72.3	126				
Toluene	56.77	5.0	50.00		114	74.9	127				
Trichloroethene	52.26	5.0	50.00		105	70.5	134				
Surr: 4-Bromofluorobenzene	41.50	0	50.00		83.0	70.6	123				
Surr: Dibromofluoromethane	54.48	0	50.00		109	78.7	124				
Surr: Toluene-d8	50.90	0	50.00		102	81.3	120				

Sample ID: **1504545-001AMS** Client ID: Not project sample Units: **ug/L** Prep Date: **04/09/2015** Run No: **289619**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205787** Analysis Date: **04/10/2015** Seq No: **6157246**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.73	5.0	50.00		111	60.5	156				
Benzene	52.00	5.0	50.00		104	70	135				
Chlorobenzene	49.91	5.0	50.00		99.8	70.5	132				
Toluene	53.20	5.0	50.00		106	70.5	137				
Trichloroethene	55.39	5.0	50.00		111	71.8	139				
Surr: 4-Bromofluorobenzene	47.64	0	50.00		95.3	70.6	123				
Surr: Dibromofluoromethane	53.06	0	50.00		106	78.7	124				
Surr: Toluene-d8	50.72	0	50.00		101	81.3	120				

Sample ID: **1504545-001AMSD** Client ID: Not project sample Units: **ug/L** Prep Date: **04/09/2015** Run No: **289619**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205787** Analysis Date: **04/10/2015** Seq No: **6157247**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.09	5.0	50.00		110	60.5	156	55.73	1.16	20	
Benzene	51.05	5.0	50.00		102	70	135	52.00	1.84	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205787

Sample ID: **1504545-001AMSD** Client ID: Not project sample
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **04/09/2015** Run No: **289619**
BatchID: **205787** Analysis Date: **04/10/2015** Seq No: **6157247**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	50.50	5.0	50.00		101	70.5	132	49.91	1.18	20	
Toluene	53.00	5.0	50.00		106	70.5	137	53.20	0.377	20	
Trichloroethene	54.32	5.0	50.00		109	71.8	139	55.39	1.95	20	
Surr: 4-Bromofluorobenzene	48.47	0	50.00		96.9	70.6	123	47.64	0	0	
Surr: Dibromofluoromethane	53.10	0	50.00		106	78.7	124	53.06	0	0	
Surr: Toluene-d8	49.92	0	50.00		99.8	81.3	120	50.72	0	0	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: 205793

Sample ID: **MB-205793** Client ID: Units: **ug/L** Prep Date: **04/10/2015** Run No: **289614**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205793** Analysis Date: **04/10/2015** Seq No: **6157083**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4									

Sample ID: **LCS-205793** Client ID: Units: **ug/L** Prep Date: **04/10/2015** Run No: **289614**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205793** Analysis Date: **04/10/2015** Seq No: **6157084**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	106.8	4	200.0		53.4	45.1	115				

Sample ID: **LCSD-205793** Client ID: Units: **ug/L** Prep Date: **04/10/2015** Run No: **289614**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205793** Analysis Date: **04/10/2015** Seq No: **6157085**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	102.8	4	200.0		51.4	45.1	115	106.8	3.80	20	

Sample ID: **1504545-001BMS** Client ID: Not project sample Units: **ug/L** Prep Date: **04/10/2015** Run No: **289614**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205793** Analysis Date: **04/10/2015** Seq No: **6157113**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	116.5	4	200.0		58.3	40.4	115				

Sample ID: **1504545-001BMSD** Client ID: Not project sample Units: **ug/L** Prep Date: **04/10/2015** Run No: **289614**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205793** Analysis Date: **04/10/2015** Seq No: **6157114**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.8	4	200.0		55.9	40.4	115	116.5	4.12	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: R289476

Sample ID: **MB-R289476** Client ID: Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153644**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R289476** Client ID: Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4825	0.100	0.5000		96.5	85	115				

Sample ID: **1504639-005DMS** Client ID: **15098-MW-8** Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153647**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0.5000		3.30	80	120				S

Sample ID: **1504639-005DMSD** Client ID: **15098-MW-8** Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153648**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0.5000		2.80	80	120	0.01650	0	30	S

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: **MB-R289683** Client ID: Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/10/2015** Seq No: **6158830**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R289683** Client ID: Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/10/2015** Seq No: **6158829**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.90	1.00	25.00		108	90	110				

Sample ID: **1504545-004DMS** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/13/2015** Seq No: **6158854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.28	1.00	25.00	1.136	92.6	80	120				

Sample ID: **1504545-004DMSD** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/13/2015** Seq No: **6158855**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.99	1.00	25.00	1.136	99.4	80	120	24.28	6.80	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504639

ANALYTICAL QC SUMMARY REPORT

BatchID: R289768

Sample ID: **MB-R289768** Client ID: Units: **mg/L** Prep Date: Run No: **289768**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R289768** Analysis Date: **04/08/2015** Seq No: **6160855**

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

Sample ID: **LCS-R289768** Client ID: Units: **mg/L** Prep Date: Run No: **289768**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R289768** Analysis Date: **04/08/2015** Seq No: **6160854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.747	0.25	5.000		94.9	90	110				
Sulfate	24.94	1.0	25.00		99.8	90	110				

Sample ID: **1504639-005EMS** Client ID: **15098-MW-8** Units: **mg/L** Prep Date: Run No: **289768**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R289768** Analysis Date: **04/09/2015** Seq No: **6160900**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	9.445	0.50	10.00		94.4	90	110				
Sulfate	104.0	2.0	50.00	61.63	84.8	90	110				S

Sample ID: **1504639-005EMSD** Client ID: **15098-MW-8** Units: **mg/L** Prep Date: Run No: **289768**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R289768** Analysis Date: **04/09/2015** Seq No: **6160901**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	9.488	0.50	10.00		94.9	90	110	9.445	0.450	20	
Sulfate	104.1	2.0	50.00	61.63	85.0	90	110	104.0	0.086	20	S

Qualifiers:

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

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 4/20/15

Project Number: 145686-020-004 Project Name/Client: Hillshire Farms

Project Manager: T. Reifenberger Sampled By: G. Skala

Laboratory: AES Order No.: 1504740

2. SAMPLE INFORMATION

Purpose of sampling: Semiannual sampling

Total number of samples: 2

☐ Groundwater: 1 ☐ Soil: _____ ☐ Soil Gas: _____ ☐ Trip Blank: 1

☐ Surface water: _____ ☐ Sediment: _____ ☐ Other: _____ ☐ Field Blank: _____

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☐ Equip Blank: _____

Analyses requested: VOCs, TOC, nitrate, sulfate, ferrous iron, methane

Method detection limits (MDLs) or reporting limits (RLs) requested: NA

Duplicates: None

3. DATA VERIFICATION

Check yes or no. Refer to applicable Data Verification Guidelines to determine appropriate action.

☑ Yes ☐ No ☐ NA **Was the Chain of Custody intact?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were custody seals intact on samples bottles and/or coolers as necessary?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were cooler temperatures within the acceptable range of 0-6°C?**

If no: Notes: 3.4

☑ Yes ☐ No ☐ NA **Were samples physically and chemically preserved properly (i.e. no bubbles in VOC vials)**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Was the case narrative of the analytical report free of any quality issues, discrepancies, etc.?**

If no: Notes: Refer to Comment No. 1

☑ Yes ☐ No ☐ NA **Were all samples labeled, analyzed, and reported correctly? (no samples held, no wrong analyses, etc.)**

If no: If within holding time, call lab immediately. Notes: _____

☑ Yes ☐ No ☐ NA **Were all samples analyzed within holding time?**

If no: Notes: _____

☑ Yes ☐ No ☐ NA **Were appropriate analytes reported?**

If no: Notes: _____

☐ Yes ☐ No ☑ NA **Were soil and/or sediment concentrations reported appropriately? (DW vs WW)**

If no: Call lab immediately to verify. Notes: _____

☐ Yes ☐ No ☑ NA **If analyzed for the following parameters, was the following true for all analytes?**

- ☐ Yes ☐ No ☑ NA Total metals ≥ Dissolved metals
- ☐ Yes ☐ No ☑ NA TKN > Organic nitrogen
- ☐ Yes ☐ No ☑ NA TKN > Ammonia (NH_3)
- ☐ Yes ☐ No ☑ NA COD > TOC
- ☐ Yes ☐ No ☑ NA COD > BOD

If no: Report to project manager and contact lab's QA/QC manager if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were method detection limits (MDL), reporting limits (RLs), and/or dilution factors appropriate?**

If no: Report to project manager and contact lab if needed. Notes: _____

☑ Yes ☐ No ☐ NA **Were surrogate % recoveries within the acceptable range of LCL ≤ x ≤ UCL?**

If no: Notes: _____

☐ Yes ☑ No ☐ NA **Were target analytes detected in any field, equipment, and/or laboratory blanks?**

If yes: Notes: _____

Brown AND Caldwell : **LABORATORY DATA VERIFICATION FORM**

☐ Yes ☐ No ☑ NA **Were any target analytes detected below practical quantitation limits (PQLs)?**
If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any sample duplicates collected?**
If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any laboratory duplicates reported for project samples?**
If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were any matrix spikes reported for project samples?**
If yes: Notes: _____

☑ Yes ☐ No ☐ NA **Were any laboratory control samples reported?**
If yes: Notes: No issues to report

☐ Yes ☑ No ☐ NA **Were calibration standards reported?**
If yes: Notes: _____

4. COMMENTS & SUMMARY OF ACTIONS TAKEN (Attach additional pages if necessary)

Comment No. 1: According to the case narrative, sample -001 required a dilution during preparation and/or analysis resulting in elevated reporting limits. No further action required.

Sarah E Jones

Signature of Data Verifier

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 16, 2015

TRISH REIFENBERGER P.E.
BROWN AND CALDWELL
990 Hammond Drive
Atlanta GA 30328

TEL: (770) 673-3630
FAX: (770) 396-9495

RE: Hill Shire Farms

Dear TRISH REIFENBERGER P.E.: Order No: 1504740

Analytical Environmental Services, Inc. received 2 samples on 4/9/2015 2:05:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

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

CHAIN OF CUSTODY

Work Order: ~~1540~~ KF 1504740

Date: 4-9-15 Page 1 of 1

COMPANY:	ADDRESS:
Brown and Caldwell	990 Hammond Dr. Ste 400 Atlanta GA 30328
PHONE:	FAX:
SAMPLED BY: Brian Steele	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC	Methane	total organic Carbon	Ferrous Iron	Nitrate / Sulfate	No # of Containers
							PRESERVATION (See codes)					
							HCl	HCl	SO4	NaOH	NA	
1	15099-MW-4a	4-9-15	1040	X		GW	X	X	X	X	X	7
2	Trip Blank	—	—	X		W	X					2
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

ANALYSIS REQUESTED

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

REMARKS

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1:	4-9-15/1405	1: Cataya Reeves	4/9/15 2:05p
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:
Short hold time on Ferrous Iron

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

PROJECT INFORMATION
PROJECT NAME: Hillshire Brands
PROJECT #:
SITE ADDRESS: Smyrna, GA
SEND REPORT TO: TReitenberger@brwncald.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers: 9

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

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

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

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

White Copy - Original; Yellow Copy - Client

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab ID: 1504740

Case Narrative

IC Analysis by Method 9056A:

Due to sample matrix, sample 1504740-001D required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 16-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15099-MW-4A
Project Name:	Hill Shire Farms	**Collection Date:**	4/9/2015 10:40:00 AM
Lab ID:	1504740-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	38.8	1.00		mg/L	R289683	1	04/10/2015 21:12	YS
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,1-Dichloroethane	19	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2-Dichlorobenzene	200	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,3-Dichlorobenzene	74	5.0		ug/L	205941	1	04/13/2015 23:46	CH
1,4-Dichlorobenzene	45	5.0		ug/L	205941	1	04/13/2015 23:46	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 23:46	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 23:46	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
cis-1,2-Dichloroethene	6000	500		ug/L	205941	100	04/14/2015 23:35	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 23:46	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	15099-MW-4A
Project Name:	Hill Shire Farms	**Collection Date:**	4/9/2015 10:40:00 AM
Lab ID:	1504740-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Tetrachloroethene	5.5	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
trans-1,2-Dichloroethene	38	5.0		ug/L	205941	1	04/13/2015 23:46	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Trichloroethene	17	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 23:46	CH
Vinyl chloride	7.3	2.0		ug/L	205941	1	04/13/2015 23:46	CH
Surr: 4-Bromofluorobenzene	80.9	70.6-123		%REC	205941	1	04/13/2015 23:46	CH
Surr: 4-Bromofluorobenzene	82.6	70.6-123		%REC	205941	100	04/14/2015 23:35	CH
Surr: Dibromofluoromethane	110	78.7-124		%REC	205941	100	04/14/2015 23:35	CH
Surr: Dibromofluoromethane	119	78.7-124		%REC	205941	1	04/13/2015 23:46	CH
Surr: Toluene-d8	103	81.3-120		%REC	205941	100	04/14/2015 23:35	CH
Surr: Toluene-d8	96.4	81.3-120		%REC	205941	1	04/13/2015 23:46	CH
ION SCAN SW9056A								
Nitrate	BRL	0.50		mg/L	R289844	2	04/10/2015 09:54	JW
Sulfate	89	2.0		mg/L	R289844	2	04/10/2015 09:54	JW
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	110	4		ug/L	205953	1	04/14/2015 11:05	AB
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R289476	1	04/10/2015 08:50	OM

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/9/2015
Lab ID:	1504740-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,1-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,1-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2-Dibromoethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2-Dichloroethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,2-Dichloropropane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
2-Butanone	BRL	50		ug/L	205941	1	04/13/2015 17:03	CH
2-Hexanone	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
4-Methyl-2-pentanone	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
Acetone	BRL	50		ug/L	205941	1	04/13/2015 17:03	CH
Benzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Bromodichloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Bromoform	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Bromomethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Carbon disulfide	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Carbon tetrachloride	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Chlorobenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Chloroethane	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
Chloroform	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Chloromethane	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Cyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Dibromochloromethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Dichlorodifluoromethane	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
Ethylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Freon-113	BRL	10		ug/L	205941	1	04/13/2015 17:03	CH
Isopropylbenzene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
m,p-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Methyl acetate	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Methylcyclohexane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Methylene chloride	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
o-Xylene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 16-Apr-15

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	4/9/2015
Lab ID:	1504740-002	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Tetrachloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Toluene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Trichloroethene	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Trichlorofluoromethane	BRL	5.0		ug/L	205941	1	04/13/2015 17:03	CH
Vinyl chloride	BRL	2.0		ug/L	205941	1	04/13/2015 17:03	CH
Surr: 4-Bromofluorobenzene	81.2	70.6-123		%REC	205941	1	04/13/2015 17:03	CH
Surr: Dibromofluoromethane	117	78.7-124		%REC	205941	1	04/13/2015 17:03	CH
Surr: Toluene-d8	99.9	81.3-120		%REC	205941	1	04/13/2015 17:03	CH

Qualifiers:

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Brown & Caldwell Work Order Number 1504740

Checklist completed by Kristi Fossum 4/9/15
Signature Date

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

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

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

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

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

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

Chain of custody present? Yes ✓ No __

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

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

Samples in proper container/bottle? Yes ✓ No __

Sample containers intact? Yes ✓ No __

Sufficient sample volume for indicated test? Yes ✓ No __

All samples received within holding time? Yes ✓ No __

Was TAT marked on the COC? Yes ✓ No __

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

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

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

Adjusted? _____ Checked by KF

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

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

Analytical Environmental Services, Inc

Date: 17-Apr-15

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Lab Order: 1504740

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1504740-001A	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015
1504740-001A	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/14/2015
1504740-001B	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	GC Analysis of Gaseous Samples		4/14/2015 9:38:30 AM	04/14/2015
1504740-001C	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	Ferrous Iron			04/10/2015
1504740-001D	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	ION SCAN			04/10/2015
1504740-001E	15099-MW-4A	4/9/2015 10:40:00AM	Groundwater	Total Organic Carbon (TOC)			04/10/2015
1504740-002A	TRIP BLANK	4/9/2015 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		4/13/2015 3:01:00 PM	04/13/2015

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: **MB-205941** Client ID: Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160020**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: **MB-205941** Client ID: Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160020**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	41.50	0	50.00		83.0	70.6	123				
Surr: Dibromofluoromethane	56.30	0	50.00		113	78.7	124				
Surr: Toluene-d8	50.09	0	50.00		100	81.3	120				

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: **LCS-205941** Client ID: Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160019**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	68.38	5.0	50.00		137	64.2	137				
Benzene	59.68	5.0	50.00		119	72.8	128				
Chlorobenzene	53.04	5.0	50.00		106	72.3	126				
Toluene	59.13	5.0	50.00		118	74.9	127				
Trichloroethene	57.04	5.0	50.00		114	70.5	134				
Surr: 4-Bromofluorobenzene	42.51	0	50.00		85.0	70.6	123				
Surr: Dibromofluoromethane	54.08	0	50.00		108	78.7	124				
Surr: Toluene-d8	50.03	0	50.00		100	81.3	120				

Sample ID: **1504763-001AMS** Client ID: Not project sample Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160023**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	32910	2500	25000		132	60.5	156				
Benzene	26820	2500	25000		107	70	135				
Chlorobenzene	26220	2500	25000		105	70.5	132				
Toluene	28190	2500	25000		113	70.5	137				
Trichloroethene	25580	2500	25000		102	71.8	139				
Surr: 4-Bromofluorobenzene	23050	0	25000		92.2	70.6	123				
Surr: Dibromofluoromethane	28510	0	25000		114	78.7	124				
Surr: Toluene-d8	26290	0	25000		105	81.3	120				

Sample ID: **1504763-001AMSD** Client ID: Not project sample Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	29390	2500	25000		118	60.5	156	32910	11.3	20	
Benzene	26580	2500	25000		106	70	135	26820	0.880	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: 205941

Sample ID: **1504763-001AMSD** Client ID: Not project sample
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **04/13/2015** Run No: **289729**
BatchID: **205941** Analysis Date: **04/13/2015** Seq No: **6160024**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	25900	2500	25000		104	70.5	132	26220	1.23	20	
Toluene	27380	2500	25000		110	70.5	137	28190	2.90	20	
Trichloroethene	24840	2500	25000		99.4	71.8	139	25580	2.94	20	
Surr: 4-Bromofluorobenzene	23330	0	25000		93.3	70.6	123	23050	0	0	
Surr: Dibromofluoromethane	29100	0	25000		116	78.7	124	28510	0	0	
Surr: Toluene-d8	25200	0	25000		101	81.3	120	26290	0	0	

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: 205953

Sample ID: **MB-205953** Client ID: Units: **ug/L** Prep Date: **04/14/2015** Run No: **289777**
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205953** Analysis Date: **04/14/2015** Seq No: **6161053**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	BRL	4									

Sample ID: **LCS-205953** Client ID: Units: **ug/L** Prep Date: **04/14/2015** Run No: **289777**
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205953** Analysis Date: **04/14/2015** Seq No: **6161054**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	118.0	4	200.0		59.0	45.1	115				

Sample ID: **LCSD-205953** Client ID: Units: **ug/L** Prep Date: **04/14/2015** Run No: **289777**
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205953** Analysis Date: **04/14/2015** Seq No: **6161055**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	111.9	4	200.0		56.0	45.1	115	118.0	5.34	20	

Sample ID: **1504745-003BMS** Client ID: Not project sample Units: **ug/L** Prep Date: **04/14/2015** Run No: **289777**
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205953** Analysis Date: **04/14/2015** Seq No: **6161070**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	119.8	4	200.0	7.597	56.1	40.4	115				

Sample ID: **1504745-003BMSD** Client ID: Not project sample Units: **ug/L** Prep Date: **04/14/2015** Run No: **289777**
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175** BatchID: **205953** Analysis Date: **04/14/2015** Seq No: **6161071**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	118.4	4	200.0	7.597	55.4	40.4	115	119.8	1.17	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: R289476

Sample ID: **MB-R289476** Client ID: Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MBLK** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153644**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100									

Sample ID: **LCS-R289476** Client ID: Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **LCS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153645**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	0.4825	0.100	0.5000		96.5	85	115				

Sample ID: **1504639-005DMS** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MS** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153647**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0.5000		3.30	80	120				S

Sample ID: **1504639-005DMSD** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289476**
SampleType: **MSD** TestCode: **Ferrous Iron** **SM3500-Fe-B** BatchID: **R289476** Analysis Date: **04/09/2015** Seq No: **6153648**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron, as Ferrous (Fe+2)	BRL	0.100	0.5000		2.80	80	120	0.01650	0	30	S

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: R289683

Sample ID: **MB-R289683** Client ID: Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MBLK** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/10/2015** Seq No: **6158830**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	BRL	1.00									

Sample ID: **LCS-R289683** Client ID: Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **LCS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/10/2015** Seq No: **6158829**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.90	1.00	25.00		108	90	110				

Sample ID: **1504545-004DMS** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MS** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/13/2015** Seq No: **6158854**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.28	1.00	25.00	1.136	92.6	80	120				

Sample ID: **1504545-004DMSD** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289683**
SampleType: **MSD** TestCode: **Total Organic Carbon (TOC) SW9060A** BatchID: **R289683** Analysis Date: **04/13/2015** Seq No: **6158855**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.99	1.00	25.00	1.136	99.4	80	120	24.28	6.80	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: **MB-R289844** Client ID: Units: **mg/L** Prep Date: Run No: **289844**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162843**

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

Sample ID: **LCS-R289844** Client ID: Units: **mg/L** Prep Date: Run No: **289844**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162842**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	4.722	0.25	5.000		94.4	90	110				
Sulfate	24.87	1.0	25.00		99.5	90	110				

Sample ID: **1504715-002BMS** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289844**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162857**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	46.29	2.5	50.00		92.6	90	110				
Sulfate	267.8	10	250.0	40.23	91.0	90	110				

Sample ID: **1504716-002BMS** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289844**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162861**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	49.38	2.5	50.00	3.683	91.4	90	110				
Sulfate	259.8	10	250.0	29.42	92.1	90	110				

Sample ID: **1504715-002BMSD** Client ID: Not project sample Units: **mg/L** Prep Date: Run No: **289844**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162858**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	46.79	2.5	50.00		93.6	90	110	46.29	1.07	20	

Qualifiers:

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

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1504740

ANALYTICAL QC SUMMARY REPORT

BatchID: R289844

Sample ID: **1504715-002BMSD** Client ID: Not project sample
SampleType: **MSD** TestCode: **ION SCAN SW9056A**
Units: **mg/L** Prep Date: Run No: **289844**
BatchID: **R289844** Analysis Date: **04/09/2015** Seq No: **6162858**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfate	276.4	10	250.0	40.23	94.5	90	110	267.8	3.16	20	

Qualifiers:

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

Appendix D: Laboratory Stipulation Letter

AES

Analytical Environmental Services, Inc.,
3080 Presidential Drive
Atlanta, GA 30340

Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	Analytical Environmental Services, Inc. (AES) 3080 Presidential Drive Atlanta, GA 30340 (770) 457-8177
Accredited By:	State of Florida, Department of Health, Bureau of Laboratories; Accrediting NELAP Authority
Accreditation ID:	E87582
Scope:	Clean Water Act – Extractable Organics, General Chemistry, Metals, Microbiology, Pesticides-Herbicides, PCBs, Volatile Organics RCRA/CERCLA – Extractable Organics, General Chemistry, Metals, Pesticides-Herbicides, PCBs, Volatile Organics
Effective:	July 1, 2014
Expires:	June 30, 2015

I further certify that the sample(s) for which this data is being submitted has been handled pursuant to the appropriate chain of custody. Any question regarding this stipulation of approval may be directed to AES at 770 457-8177. Thank you for your business and please do not hesitate contacting us if we can be of further assistance.

James Forrest

Director of Project Management
December 23, 2014

Appendix E: Letter from State Properties Commission in Lieu of an ELUC

STATE PROPERTIES COMMISSION

47 Trinity Avenue, S.W., Suite G02, Atlanta, Georgia 30334

Chairman
Nathan Deal
Governor

Executive Director
Steven L. Stancil

March 3, 2015

Mr. David Brownlee, Unit Coordinator
Georgia Department of Natural Resources
Response and Remediation Program
2 Martin Luther King Jr. Drive, SW, Suite 1462 East
Atlanta, Georgia 30334

RE: Environmental Covenant on State owned property in Smyrna, Cobb County, Georgia

Dear Mr. Brownlee:

The State Properties Commission has been approached by a representative of The Hillshire Brands Company and Rathon Corp. regarding the placement of a Uniform Environmental Covenant (UEC) on property owned by the State of Georgia in Smyrna, Georgia in connection with the Diversey-Olympic Manufacturing Site,HSI #10435 (the "site"). For the State of Georgia to enter into an UEC, the staff of the State Properties Commission must seek General Assembly approval along with the approval of the governing board of the State Properties Commission. Additionally, the State must receive permission from CSX Corporation, current lessee of the subject property, prior to the placement of a UEC on the property.

It is our understanding that the only well on the state-owned property is a groundwater well installed by The Hillshire Brands Company and Rathon Corp. for the purpose of monitoring groundwater quality in connection with the aforementioned site. The State does not intend to utilize groundwater at the location, and potable water is available via the Cobb County Water Department should it be necessary. In light of the foregoing, the State Properties Commission requests that the Environmental Protection Division accept this letter in lieu of placement of a UEC.

Should you have any questions, please contact my office at (404) 656-5602.

Sincerely,

J. Frank Smith
Deputy Executive Director

Appendix F: Groundwater Modeling Technical Memorandum

900 Hammond Drive, Suite 400
Atlanta, GA 30328
T: 770.394.2997
F: 770.396.9495

Technical Memorandum

Prepared for: Former Olympic Manufacturing Site
Smyrna, Georgia

Project Title: Groundwater Fate and Transport Modeling
Georgia Voluntary Remediation Program

Project No: 145686.020.002

Technical Memorandum

Subject: Flow and Transport Model Development and Evaluation
Groundwater in the Vicinity of MW-9a/9b
Former Olympic Manufacturing Site

Date: June 26, 2015

To: Trish Reifenberger, P.E., Project Manager, Brown and Caldwell

From: Gregory L. Christians, P.G., Associate Hydrogeologist, Brown and Caldwell

Copy to: File

Prepared by: Gregory L. Christians
Gregory L Christians, P.G., Associate Hydrogeologist

Reviewed by:
Jeff Weaver P.G., Managing Hydrogeologist

Limitations:

This document was prepared solely for The Hillshire Brands Company and Rathon Corp. in accordance with professional standards at the time the services were performed and in accordance with the contract between The Hillshire Brands Company and Rathon Corp. and Brown and Caldwell executed February 9, 2015. This document is governed by the specific scope of work authorized by The Hillshire Brands Company and Rathon Corp.; it is not intended to be relied upon by any other party except for regulatory authorities contemplated by the scope of work. We have relied on information or instructions provided by The Hillshire Brands Company and Rathon Corp. and other parties and, unless otherwise expressly indicated, have made no independent investigation as to the validity, completeness, or accuracy of such information.

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List of Tables

Table 1. Specifications of the Numerical Flow Model 3

List of Abbreviations

amsl	above mean sea level
COCs	constituents of concern
CSM	conceptual site model
ft	feet
ft/day	feet per day
ft/ft	foot per foot
EPD	Environmental Protection Division
µg/L	micrograms per liter
MNA	monitored natural attenuation
MT3D	solute transport code, MT3DMS
PEST	model-independent parameter estimation
RRS	EPD risk reduction standard
VRP	Voluntary Remediation Program

Section 1: Background and Scope of Work

In compliance with the Georgia Environmental Protection Division's (EPD's) Voluntary Remediation Program (VRP), a numerical model has been developed to simulate general groundwater flow and chemical fate and transport conditions in the vicinity of monitoring wells MW-9a and MW-9b associated with the Former Olympic Manufacturing/Diversey (Former Olympic) Site (Site) in Smyrna, Georgia (Hazardous Site Inventory [HSI] site no. 10435). The model has been used to evaluate migration of the chlorobenzene currently observed in these monitoring wells in order to evaluate compliance with the Site cleanup requirements under the VRP.

Monitoring wells MW-9a and MW-9b are located on a property owned by Crimson Three Partners, LLC (Crimson) located southwest of the Former Olympic property (**Figure 1**). Following extended discussion with the EPD, it was agreed that the Crimson property would be included as a Qualifying Property under the Site's VRP application, and that Hillshire and Rathon would simulate the groundwater concentrations on the Crimson property in support of demonstrating compliance with applicable Risk Reduction Standards (RRSs). This technical memorandum (TM) documents the selected flow and fate and transport models, their usage, and summarizes the results. This modeling effort was separate from that previously conducted and submitted to the EPD for groundwater at the north end of the Site. Groundwater concentrations at the Site are well documented in reports submitted to the EPD since prior to the Site being listed on the HSI.

Groundwater sampling has identified chlorobenzene concentrations in MW-9a and MW-9b in excess of the RRS of 136 micrograms per liter (µg/L). During the April 2015 groundwater sampling event, chlorobenzene was observed in monitoring wells MW-9a and MW-9b at concentrations of 150 µg/L and 220 µg/L, respectively. The concentrations observed in other wells on the Crimson and Former Olympic properties indicate that the overall source is limited. Chlorobenzene concentrations in these wells have been generally decreasing since sampling began in 2001 and 2002. Several studies have shown that chlorobenzene can readily be degraded under aerobic conditions. During biodegradation, chlorobenzene can be completely mineralized to carbon dioxide (Lawrence, 2006). Chlorobenzene has also been observed to biodegrade under anaerobic conditions. Under aerobic conditions, chlorobenzene has been shown to have a half-life range from 69 to 150 days. A half-life range of 280 to 580 days has been reported for anaerobic conditions (Lawrence, 2006). The relatively rapid degradation of chlorobenzene under either aerobic or anaerobic conditions typically limits downgradient migration.

This memorandum summarizes the basis for key assumptions and results of this modeling effort.

1.1 Objective

The primary objective of this fate and transport modeling effort was to evaluate plume stability and whether natural attenuation processes will result in limited downgradient migration of chlorobenzene as observed on the Site.

1.2 Conceptual Site Model

The development of a Conceptual Site Model (CSM) is a critical part of a site investigation and remediation project and serves as the basis for the understanding of hydrogeologic conditions and how these conditions influence the fate and transport of chlorobenzene in groundwater. The following is a brief discussion of the CSM for this Site.

The Site hydrogeology is primarily comprised of a saprolite water table aquifer underlain by a weathered bedrock aquifer. The unconsolidated materials comprising the saprolite are characterized as reddish brown

micaceous sandy silt to silty clay. As the uppermost hydrogeologic unit at the Site, the saprolite has been observed to range in thickness from approximately 35 feet (ft) to approximately 107 ft. The depth to groundwater generally ranges from approximately 20 to 25 feet at the southern end of the Site to 45 to 55 ft at the northern end of the Site. Given these groundwater depths in relation to the base of the saprolite, there are areas where the saprolite is unsaturated. In this case, the water table is generally observed within the upper portion of the underlying weathered bedrock. In areas where the water table is observed to be above the base of the saprolite, saturated conditions are on the order of a few inches to as great as 73 ft. Hydraulic conductivities within the saprolite are considered to be relatively low. Slug test results from within the saturated saprolite yielded an average hydraulic conductivity of 0.21 ft per day (ft/day).

The upper portion of the bedrock has been characterized as gray foliated phyllonite with numerous fractures that diminish with depth. The bedrock in this zone is moderately to highly weathered. The fractured and weathered zone ranges in thickness from approximately 20 ft to 40 ft. Hydraulic conductivities associated with the weathered bedrock zone range from 2.9 ft/day to 11 ft/day, with a geometric mean value of 5.2 ft/day. Groundwater is generally observed to be under confined or semi-confined conditions, with the exception of the upland areas where water table conditions may exist. Groundwater elevations within the vicinity of the Site generally ranged from 776 ft above mean sea level (amsl) to 813 ft amsl. A groundwater divide appears to bisect the Site and adjacent properties with groundwater generally flowing to the northeast and to the southwest.

Based on the distribution of chlorobenzene concentrations observed in Site monitoring wells, it appears that the source of the chlorobenzene is located on the northeast side of the groundwater divide in the vicinity of MW-9a/9b. Given this, the chlorobenzene plume is expected to migrate to the northeast. Groundwater flow on either side of the divide will ultimately discharge into the Chattahoochee River. The average horizontal gradient within the weathered bedrock is approximately 0.043 foot per foot (ft/ft). This relatively high horizontal gradient results from the Site's upland location relative to the nearby Chattahoochee River.

When saturated conditions were observed within the saprolite, vertical gradients between the saprolite and the upper bedrock were generally observed to be downward. This is consistent with the underlying weathered bedrock's hydraulic conductivity being at least one to two orders of magnitude greater than that observed within the saprolite. Given this, Site constituents of concern (COCs) within the saprolite are expected to generally migrate vertically downward into the underlying weathered bedrock unit that serves as the primary horizontal migration pathway associated with off-Site migration.

1.3 Flow and Transport Models

As indicated above, the weathered bedrock unit is the primary horizontal migration pathway associated with the Site, and therefore a diagnostic level flow and transport model was developed to evaluate COC migration within this unit. A diagnostic level model refers to a model that generally represents site conditions sufficiently so that the data quality objectives (DQO's) can be evaluated. The diagnostic level model is quasi-calibrated to the extent that it reasonably matches groundwater elevations and more importantly it matches the groundwater flow direction and gradient. The development of such a model allows it to be used to evaluate the DQOs within a reasonable level of uncertainty.

As a result, a numerical model using MODFLOW and MT3D were selected to evaluate flow and transport, respectively. The diagnostic level groundwater flow model was developed using the MODFLOW 2000 computer code (Harbaugh et al., 2000). Solute transport modeling was performed using the MT3DMS version of the MT3D computer code coupled with the results of the flow model (Zheng, 1990). Development and quality assurance/quality control (QA/QC) of this numerical model was fully integrated using the ArcGIS™ (Version 10) Geographic Information System (GIS) software (ESRI, 2011) so that model results and input data were fully compatible between current spreadsheet, database, GIS, and modeling software

packages. Groundwater Vistas, version 6.0 build 11 (ESI, 2011), was used as a graphic user interface to facilitate integration of model data with GIS, as well as pre- and post-processing of the numerical model files.

Section 2: Flow Model Development

2.1 Model Specifications

Table 1 presents the general specifications of the flow and transport model.

Table 1. Specifications of the Numerical Flow Model

Model Characteristics	Specifications
Active Model Domain	Approximately 2,500 ft. by 4,750ft.
Units	Time: Days Length: Feet
Model Grid	162 rows by 171 columns (Active cells)
Cell Size	10 feet to 100 feet
Layering – 1 Layer	Layer 1 (Weathered Bedrock Unit); Confined Aquifer
Hydraulic Parameters	Consistent with measured Site parameters
Leakance	Leakance between the saprolite and the underlying weathered bedrock was represented by recharge
MODFLOW Packages	MODFLOW 2000 (groundwater flow): Basic, Layer-Property Flow, Discretization, Output Control, Solver, General Head, Constant Head MT3DMS (solute transport)
Boundary Conditions	General head boundaries along the southwestern perimeter of the model domain for layer 1 to simulate site groundwater elevations along said perimeter
Surface Water Interactions	Constant head cells for Riverhead elevation
Base Flow Model Calibration Period	Steady-state model calibrated to observed heads measured in April 2015 (One Stress Period)
Transport Quasi-Calibration Period Stress Period	One Transient Stress Period, One time step Estimated Release Period length: 7,300 days (20 years)

Specific details and assumptions associated with the model are presented in the following sections.

2.2 Model Grid

A model domain of 2,500 ft by 4,750 ft was selected to model flow within the weathered bedrock unit. The long axis of the model domain was set parallel to the observed groundwater flow direction. The grid was extended along the Chattahoochee River in both the northeast and southwest directions. The model domain and grid layout is presented on **Figure 2**.

2.3 Model Layering

A single model layer (layer 1) was selected to represent groundwater flow within the weathered bedrock unit. The top of layer 1 was varied based on the estimated top of bedrock elevations obtained from Site well data.

Where Site well data were not available, surface topography and nearby measured saprolite thickness were used to estimate the top of the weathered bedrock.

The weathered unit was observed to vary between 20 and 40 feet in thickness. A uniform thickness of 30 ft was selected and used for layer 1 to represent average groundwater flow conditions.

2.4 Boundary Conditions

General head cells and river cells were used to represent groundwater conditions at the margins of the model and constant head boundaries were used to represent surface water levels within the river. The location of the general head and constant head boundary conditions are presented on **Figure 2.** Groundwater elevation projected from Site data were extended to the margins of model. These projected heads were used to represent the general head boundary conditions. The constant head boundaries representing surface water stages in the river were estimated from a topographic map.

2.5 Aquifer Parameter

Hydraulic conductivities based on slug tests, associated with the weathered bedrock zone, ranged from 2.9 ft/day to 11 ft/day, with a geometric mean value of 5.2 ft/day. In order to obtain a reasonable match with Site groundwater elevations and gradients, PEST, a model-independent parameter estimation algorithm, was used to derive the distribution of hydraulic conductivities within the weathered bedrock. The PEST derived estimates of hydraulic conductivity provide a distribution that optimizes calibrations to observed water level conditions. PEST provided distribution hydraulic conductivities for the weather bedrock that ranged from 1 ft/day to 13 ft/day.

2.6 Stress Periods and Initial Conditions

The calibrated diagnostic level groundwater flow model was initially set up to produce a steady-state solution. In support of the MT3D transport model simulations, the groundwater flow model was then set to run under transient conditions. A single stress period of 20 years was used in both the flow and transport models to allow the COC plumes to be simulated 20 years into the future.

2.7 Calibration

Given the nature of a diagnostic level model, the flow model was quasi- calibrated by comparing measured heads collected in April 2015 to modeled heads. Hydraulic conductivity, general head boundary elevation, and river elevations were varied to obtain a better overall match with observed water levels. Hydraulic conductivity values were varied using PEST. The process resulted in simulated groundwater elevations that were similar to those observed in April 2015. The calibration statistics for the flow model indicated a residual mean of 0.041 feet, an absolute residual mean of 2.3 feet and a sum of residuals of 0.57 feet. The general rule of thumb is that a model is considered to be reasonably calibrated if the absolute residual mean is less than 10 percent of the total head change across the model. The estimated absolute residual mean was estimated to be approximately 4 percent of the total head change (approximately 46 feet) across the model. The residual mean square or standard deviation was approximately 3.1 feet indicating the flow model in reasonably calibrated to meet the needs of the diagnostic level model. Additionally, **Figure 3** provides a graph of the measured heads versus modeled heads that shows reasonable agreement between the measured and modeled heads. The simulated groundwater elevations are presented on **Figure 4**. Based on the agreement between the measured and modeled heads, the flow model is deemed to sufficiently simulate general Site conditions to allow it to be used as a diagnostic level flow model. This diagnostic level flow model adequately simulates known flow conditions within the weathered bedrock and allows it to be used to evaluate chlorobenzene migration within the weathered bedrock.

Section 3: Transport Model Development

3.1 Solute Transport Model

The primary objective of this diagnostic level transport model is to assess the viability of monitored natural attenuation (MNA) processes as a primary remedial component for maintaining plume stability, and whether these processes will limit the risk of Site COC migration. The solute transport code, MT3DMS (or MT3D), was used to model the behavior of chlorobenzene under the primary assumption that observed concentrations within the saprolite will serve as sources to the underlying weathered bedrock unit and that an isolated continuing source is present in the vicinity of MW-9a and MW-9b on the Site.

For this modeling effort, a worst-case scenario of a continuing source was assumed at, or upgradient of, the MW-9a and MW-9B area. Recharge cells were used to represent the continuing source of chlorobenzene and the transport model was run forward in time for 20 years. The basic premise was to assess whether the downgradient plume concentrations are stable and downgradient migration is minimal under a continuous source scenario. Overall observed chlorobenzene concentrations have been trending downward, and thus the model results are inherently conservative.

A continuous source concentration of 250 µg/L chlorobenzene was used in the transport model.

3.2 Transport Model and Parameters

MT3DMS with the finite difference scheme was used to simulate the transport of chlorobenzene in the weathered bedrock. The groundwater flow model grid and cell-to-cell flow parameters were used to support the development of the MT3D transport model. The primary transport parameters used in the model simulation are:

- Average porosity of the weathered bedrock was estimated to be 5 percent.
- The longitudinal dispersivity was calculated using an estimated transport length of 500 feet and the Modified Xu and Eckstein equation (Xu and Eckstein, 1995). Using this method, the longitudinal dispersivity was estimated to be 18.0 ft. The transverse and vertical dispersivity was estimated to be 1.8 ft and 0.18 ft, respectively.
- A decay rate is typically used to model the reduction of COC mass based on biotic processes. Lawrence 2006 indicated that decay rates for chlorobenzene have been measured to range from 60 to 580 days. Using a trial and error process, a half-life of 365 days was selected to best represent chlorobenzene concentration observed in MW-9b, MW-6, and MW-11.
- A chlorobenzene log K_{oc} of value of 1.92 L/g, an f_{oc} value of 0.001, and bulk density value of 1.9 g/cm^3 was used to estimate a retardation factor.

Section 4: Predictive Model Simulations

4.1 Scenario

The model scenario assumes a continuous chlorobenzene source upgradient of MW-9b of 250 µg/L. Using a trial and error process, a half-life of 365 days was selected to best represent the April 2015 chlorobenzene concentrations observed in MW-9b, MW-6, and MW-11. The modeled chlorobenzene concentrations in MW-9b, MW-6, and MW-11 were within approximately 10 percent of the April 2015 measured concentrations. The simulation was run forward in time for 20 years; however, the expansion of the plume reached a point of equilibrium at approximately five years. The simulated chlorobenzene plume, under equilibrium conditions

and at a concentration exceeding the RRS of 136 µg/L was estimated to extend approximately 125 feet downgradient of MW-9b. The results of this simulation are presented on **Figure 5.**

4.2 Transport Model Uncertainty

In transport modeling, half-lives, or decay rates, are typically the most sensitive transport parameter and give rise to the greatest uncertainty in model predictions. The estimated half-life of 365 days is within the mid-range, on the lower end of values, reported in the literature. However, the current rate of groundwater flow and the fact that the current plume is observed to be stable or decreasing, illustrate that the use of this decay rate is appropriate given current Site conditions. A model simulation was completed with the maximum reported half-life of 580 days. The result of this simulation indicated that the chlorobenzene plume was only projected to expend approximately 10 percent further beyond the base simulation.

A level of uncertainty also exists associated with the less sensitive parameters such as dispersivity and porosity. To further limit the overall model uncertainty, Site-specific data are needed that would require extensive field and lab testing. However, model simulations completed with dispersivity increased and decreased by 50 percent and porosity reduced to 1 percent. The results of these simulations were also within approximately 10 to 15 percent of the base case simulation. Given this, the current transport model is considered sufficient to meet the objectives of this diagnostic level model effort. Therefore, the levels of uncertainty associated with the transport model parameters are understood and are considered to be within acceptable levels.

Section 5: Summary

The primary objective of this fate and transport modeling effort was to evaluate chlorobenzene plume stability and whether natural attenuation processes will result in limited downgradient migration as observed on the Site.

A flow model was developed and calibrated to adequately represent groundwater flow within the weathered fractured bedrock. The flow model was used as the bases for development of a transport model to evaluate chlorobenzene migration. The transport simulation under a varying range of transport parameters indicated that the portion of the plume that exceeds the RRS of136 µg/L is only projected to extend approximately 120 feet downgradient of MW-9b.

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Figures

Figure 1 – Former Olympic Manufacturing Site and Surrounding Properties

Figure 2 – Model Extents

Figure 3 – Graph of Modeled Heads versus Measured Heads

Figure 4 – Comparison of Modeled Heads to Measured Heads

Figure 5 – Modeled Maximum Extent of Chlorobenzene Plume

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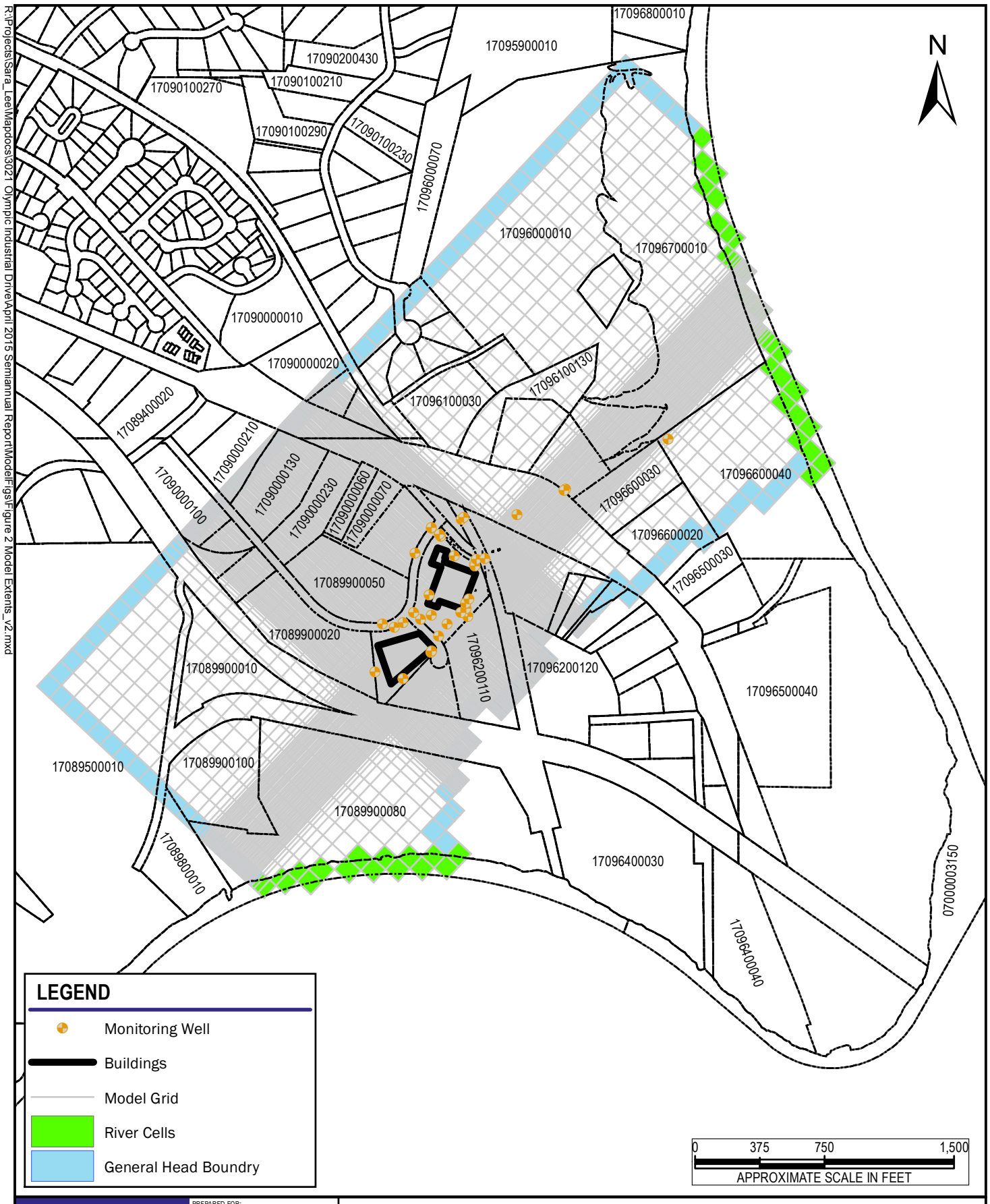
DATE:	06/26/2015
SCALE:	AS SHOWN
DRAWN BY:	GLC
CHECKED BY:	PCR
PROJECT #:	145686

Figure 1
Former Olympic Manufacturing Site
and Surrounding Properties

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia



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PROJECT #:	145686

Figure 2
Model Extents

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia

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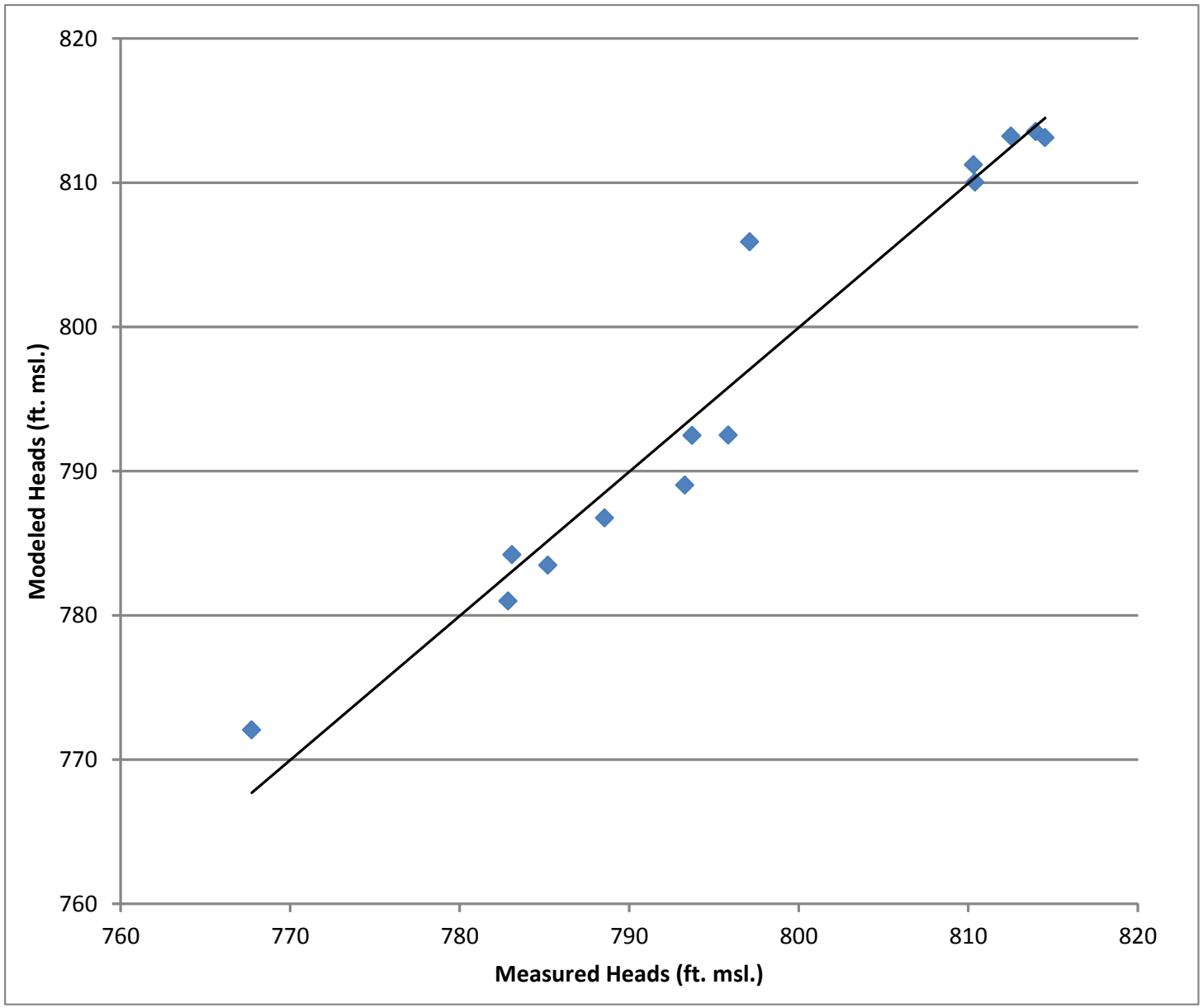

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Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

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Figure 3
Graph of Modeled Heads
versus Measured Heads

Former MacGregor Golf Company
1601 South Slappey Blvd; Albany, Dougherty County, Georgia

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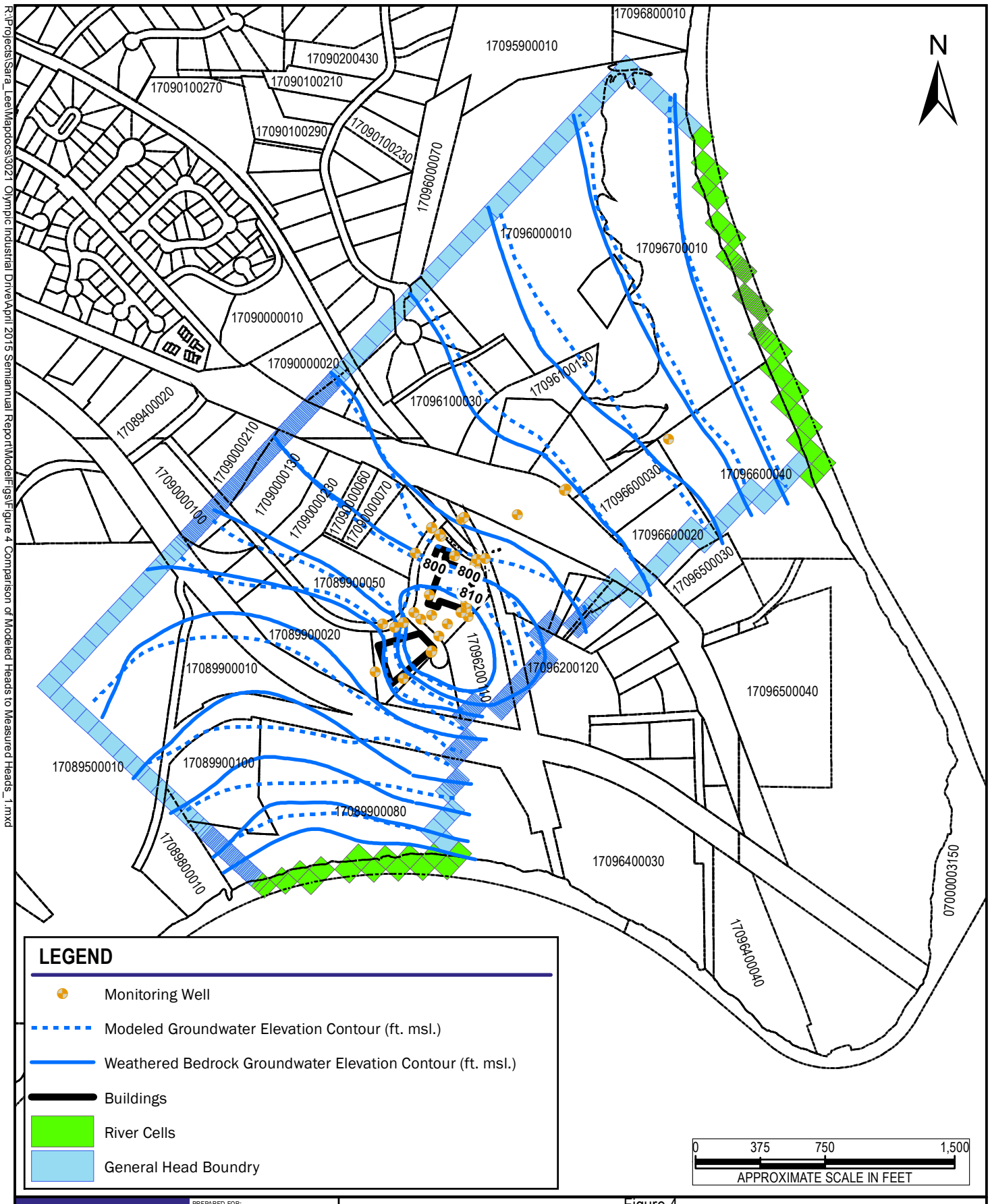

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Figure 4
Comparison of Modeled Heads to Measured Heads
Former Olympic Manufacturing Site
3051 Olympic Industrial Drive Smyrna, Georgia

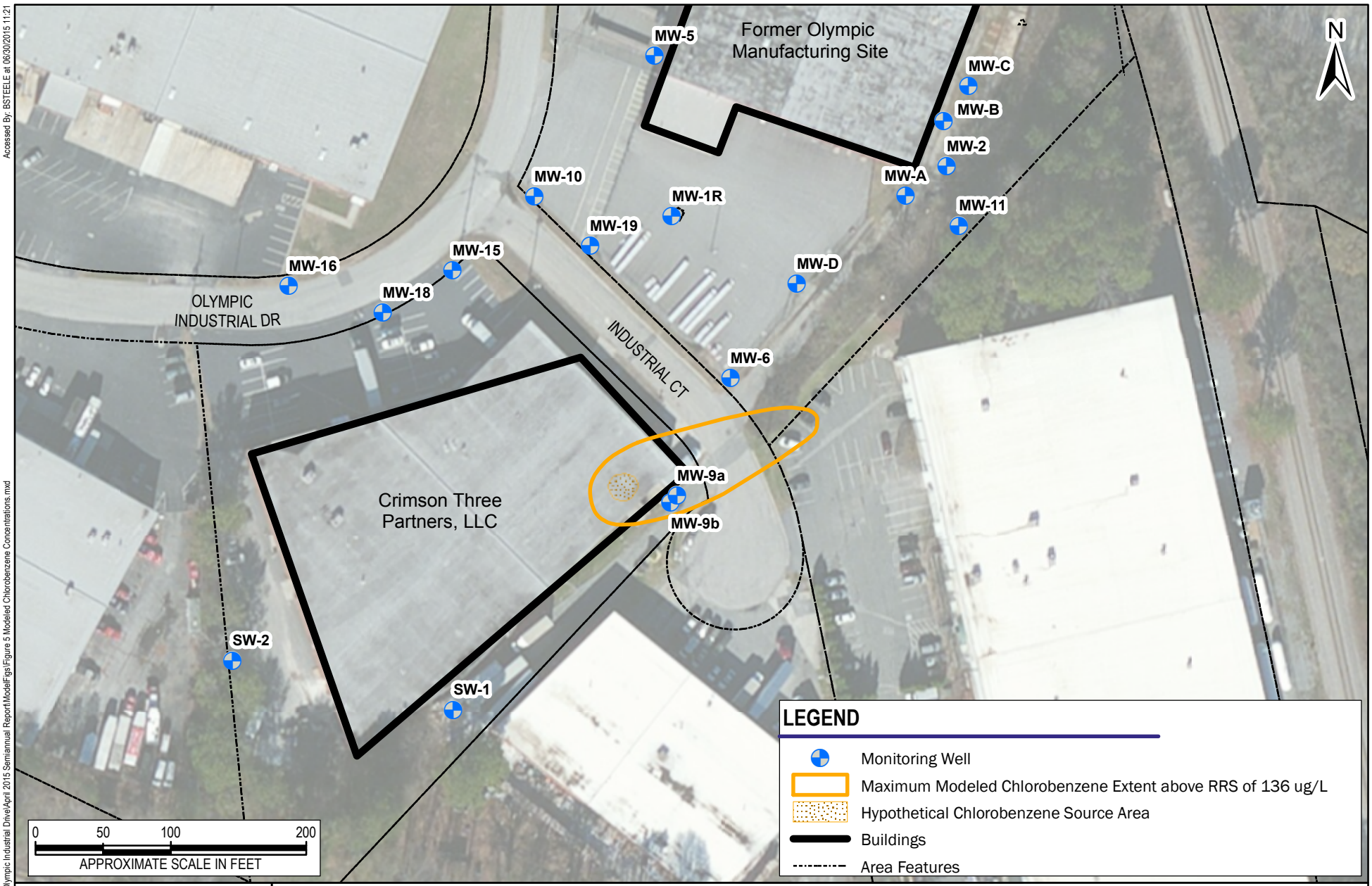

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Figure 5
Modeled Maximum Extent of
Chlorobenzene Concentrations

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive; Smyrna, Georgia

Accessed By: BSTEELE at 06/30/2015 11:21
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