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

Prepared for

The Hillshire Brands Company
Rathon Corp.

December 2013

Brown AND Caldwell

990 Hammond Drive, Suite 400
Atlanta, Georgia 30328

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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, P.E.

December 26, 2013
(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 June and December 2013.

1.1 Background

The Site was accepted into the VRP on May 17, 2010. 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 will continue to be submitted under the VRP.

1.2 Report Organization

This progress report presents the work conducted from June to December 2013, and as such provides the results of the semiannual groundwater sampling performed in October 2013, conclusions from a productive meeting with EPD and subsequent follow-up, and efforts to obtain a permit to install a new monitoring well in a Cobb County road easement.

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 2.0. Section 3.0 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 4.0. Engineers' services this period are summarized in Section 5.0. References used in preparing this report are provided in Section 6.0, and limitations associated with the use of the report are noted in Section 7.0.

Section 2

Work Performed This Period

Work at the Site since the last submittal to the EPD, which was the June 2013 Semiannual Progress Report, has consisted of:

- Meeting with EPD on September 19, 2013 and subsequent follow-up
- Groundwater sampling in October 2013
- Efforts to obtain a permit to install a new monitoring well in a Cobb County road easement

These activities are discussed in the following sections.

2.1 Meeting with the EPD and Subsequent Follow-up

A meeting was held on September 19, 2013 with EPD, Hillshire (via telephone), Rathon, Harvey Sheldon, and BC to confirm EPD concurrence with Hillshire and Rathon's approach to close the Site, status of compliance with delineation and cleanup levels, and planned future work. EPD's notes from this meeting and subsequent related email correspondence between BC and EPD are provided in Appendix A. Specific topics discussed are noted below.

2.1.1 Revised Groundwater Monitoring Protocol

In the September 2013 meeting Hillshire and Rathon proposed discontinuing monitoring in certain wells. In an October 8, 2013 email, BC proposed discontinuing sampling in the 12 wells in which no groundwater concentrations have exceeded either a detection level or a cleanup level in the last two events (MW-1R, MW-3R, MW-5, MW-7R, MW-10, MW-13aR, MW-13b, MW-14, MW-14b, MW-17, MW-18, MW-19). EPD approved this change in an email dated October 16, 2013, and reiterated the approval in their November 25, 2013 letter. In the October 18, 2013 email and November 25, 2013 letter, EPD confirmed that future resampling of these wells to certify them to RRSs will not be necessary.

2.1.2 Installation of New Delineation Monitoring Well to the East

In the September 19, 2013 meeting the EPD also requested installation of a new well east of the Site to further delineate groundwater impact to the east. Alternative locations discussed in the meeting and in subsequent communications included sampling existing monitoring wells OW-77a or OW-77b that were installed as part of the Cobb County wastewater tunnel project, or installing a new well on the S&S Realty property, between the S&S property line and South Atlanta Road, or on Elizabeth Lane across South Atlanta Road from the S&S property (Figure 2-1). Sampling OW-77a or OW-77b was eliminated from consideration as EPD indicated that the OW-77 wells would be too far to the east to adequately define the width of the plume. BC then conducted desktop research and a field reconnaissance of alternative well locations to evaluate their suitability as a location for the well to delineate the eastern boundary of the groundwater VOC plume. The results of these efforts are described in Section 3.3 of this report.

2.1.3 EPD Comments on Proposed Risk Reduction Standards

In the December 2010 progress report for this Site, Hillshire and Rathon requested EPD approval of the cleanup and delineation levels presented in Table 2-3 of that report. Subsequent email communication with the EPD indicated that these levels could be considered final, and those levels have been used to assess compliance since that time.

In their November 25, 2013 letter, however, EPD confirmed this approval subject to seven exceptions. The changes to the groundwater standards have been incorporated into this report.

2.1.4 Environmental Covenants

Hillshire, Rathon, and the EPD also discussed finalizing the draft environmental covenant (EC) so that Hillshire and Rathon could proceed with negotiating ECs with neighboring property owners. As requested in the meeting on September 19, 2013, Mr. Sheldon provided the EPD with a copy of the red-line draft EC that BC submitted to EPD in December 2011. The EPD offered to provide a copy of a sample EC that has already been approved for use on another HSI site; Hillshire/Rathon has not yet received this and will follow-up with the EPD accordingly.

2.1.5 EPD Comments on Site Groundwater Modeling

EPD review of the groundwater modeling conducted for the Site, which was presented in the *Groundwater Modeling Technical Memorandum* (Appendix F of the June 2013 semiannual report), was not complete at the time of the September meeting, and thus was not discussed in the meeting.

EPD provided comments on the modeling in their November 25, 2013 letter. As work to address the EPD's comments is still ongoing, Hillshire and Rathon will respond to EPD's comments on the model under separate cover.

2.1.6 Impact on Neighboring Olympic Associates Property

In the September meeting and November letter, the EPD stated that they believe that the subject Site is the likely source of impact in the wells on the Olympic Associates (OA) property located south of the Site (Figure 2-1). Since the impact in monitoring wells MW-9a and MW-9b was identified, Hillshire and Rathon have consistently observed that the OA property is upgradient of the Former Olympic Manufacturing Site and thus concluded that the impact on that property did not originate on the subject Site. In the September meeting EPD suggested that as OA has not responded to multiple requests by Hillshire and Rathon to allow sampling on their property, an alternative to using additional investigative work to differentiate impact on the two properties would be for Hillshire and Rathon to bring the OA property into the Former Olympic Manufacturing VRP Site as a qualifying property.

In the recent meeting, EPD also indicated that their conclusion that the subject Site is the likely source of impact on the OA property is at least partially based on the premise that monitoring well MW-6 is screened in bedrock, and in that case, water levels in MW-6 should be compared to those in monitoring well MW-9b (rather than monitoring well MW-9a). Comparing water levels in MW-6 to those in MW-9b would indicate several events where water levels in monitoring well MW-6 were higher than in monitoring well MW-9b.

Following the meeting, Hillshire and Rathon reviewed the boring log for monitoring well MW-6 again and we note that this well is screened across the overburden/bedrock interface. Thus, monitoring well MW-6 reflects water levels in the shallow aquifer and is correctly compared to water levels in shallow monitoring well MW-9a. Other than three events when a water line break was known to have occurred along Olympic Industrial Court, water levels in MW-9a have always been higher than those in MW-6, which would preclude groundwater flow from the subject Site to the OA property.

2.2 Semiannual Sampling

The semiannual groundwater monitoring was conducted October 28 to October 30, 2013 as described below. Figure 2-2 provides a site plan for reference.

2.2.1 Well Gauging

The depth to groundwater in all 40 monitoring, delineation, and injection wells at and near the Site was measured to determine the potentiometric surface. The measurements were taken on October 29, 2013, 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 wells.

2.2.2 Sample Collection

Groundwater samples were collected from 10 monitoring wells according to the protocol shown in Table 2-1, which reflects the updated monitoring protocol 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-12, MW-20, OW-72, and OW-74A). As in many prior sampling events, monitoring wells MW-15 and MW-16 were dry.

The monitoring wells to be 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 sampled in accordance with USEPA procedures (USEPA March 2013). 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. The pump was placed midway in the screened interval during purging and sampling, and new polyethylene tubing was used at each well. The groundwater samples were collected using polyethylene tubing as 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 is provided on the Groundwater Sampling Field Data Sheets that are provided in Appendix B.

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 B. 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 C. 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 (two samples)
- One duplicate sample (from monitoring well MW-8).

2.2.3 Sample Analysis

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

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

- Volatile organic compounds (VOCs, using 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) – MW-4a, MW-8, MW-12 and MW-6
- Total Manganese (USEPA Method 6010C) -- MW-8 (a monitoring well in the vicinity of the previous 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 (USEPA 2008) in order to answer questions such as:

- 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 D with each laboratory report.

Section 3

Results

This section presents and discusses the results of the work completed in the second half of 2013 described in Section 2. Semiannual groundwater sampling yielded groundwater level measurements, field water quality data, and laboratory chemical concentration data that are discussed below, along with efforts to locate and permit a final delineation well east of the Site.

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 October 2013 are presented on Figures 3-2 and 3-3, respectively.

Groundwater elevations in the wells screened in the shallow aquifer in October 2013 were generally higher than levels measured in April 2013 (Table 3-1). Lower water levels are typically observed at this Site in the fall, particularly in the shallow wells; however, due to the increased precipitation during the summer months of 2013, higher water levels were observed in this event. The water levels in October were an average of 2.0 feet higher than in the April 2013 event, and an average of 5.7 feet higher than in the October 2012 event. The trend was less distinct in the upper bedrock wells, with water levels being an average of 1.2 feet higher in October than in than in April 2013.

Consistent with past events, the October 2013 water level data indicate that the overall potentiometric surface in the shallow and upper bedrock aquifers generally slopes from southwest to northeast (Figures 3-2 and 3-3). As in previous events, the off-site wells to the southwest, MW-9a and MW-9b, are still upgradient of the subject Site.

3.2 Groundwater Chemical Concentration Data

The analytical results for the groundwater samples collected in October 2013 are summarized in Table 3-2. Current and historical concentrations are presented in Table 3-3, and Table 3-4 presents recent 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 and cleanup standards. Figures 3-4 through 3-6 show all the recent detections graphically, and Figures 3-7 through 3-9 show only the detections that exceed the VRP cleanup level. The results of the analyses are discussed below. The field data collected during the groundwater sampling is provided in Appendices B and C. Copies of the analytical reports are provided in Appendix D. The laboratory stipulation letter is provided in Appendix E.

3.2.1 Organic Compounds

Observations regarding the organic compounds detected in October 2013 are noted below.

- Concentrations at the Site are generally similar to those in previous monitoring events with a few exceptions noted in this section.
- In the groundwater in the north parking lot:

  - Total VOC concentrations of parameters exceeding their respective detection limits in the sample from well MW-4a were similar to those in IW-4 from April 2013 (8,110 microgram per liter [µg/L] and 7,995 µg/L, respectively). IW-4 was sampled in April 2013 as a surrogate for well MW-4a as MW-4a was dry in that event.
  - Total VOC concentrations of parameters exceeding their respective detection limits in the October 2013 sample from monitoring well MW-8 (2,509 µg/L) were significantly lower than in April 2013 (13,311 µg/L), largely due to a large decline in the cis-1,2-dichloroethene (cis-1,2-DCE) concentration.
  - The relative concentrations of specific compounds (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-DCE, and vinyl chloride [VC]) in the north parking lot area are similar to the previous event.
- Downgradient of the north parking lot in monitoring MW-12, isopropylbenzene exceeded the delineation level, and VC exceeded the delineation and cleanup levels; however, the concentrations measured were slightly lower than in previous events, and similar to those in April 2013. The concentration of cis-1,2-DCE decreased from 110 µg/L to 49 µg/L between April and October 2013.
- Further downgradient in the sample from monitoring well OW-72, concentrations of three VOCs exceeded a cleanup level. All VOCs are in compliance with the cleanup levels further downgradient in OW-74A, however. Concentrations in both wells were higher than in the previous event, possibly due to residual VOC mass in the vadose zone desorbing into the groundwater as water levels rose, but were within the range of past fluctuations.
- No VOCs were detected in the sample from the new, most downgradient well, MW-20.

Elsewhere on the Former Olympic Manufacturing property, two wells are not in compliance with the VRP delineation or cleanup levels. Specific observations are noted below:

- Concentrations in the sample from monitoring well MW-2 meet the cleanup levels but slightly exceed the delineation levels (8.6 µg/L vs. 7 µg/L for 1,1-dichloroethene, and 13 µg/L vs. 5 µg/L for TCE). VOC concentrations in this well have fluctuated around the delineation levels in past monitoring events.
- In the sample from monitoring well MW-11, PCE and TCE slightly exceeded the VRP delineation levels (5.7 µg/L and 10 µg/L vs. 5.0 µg/L for both constituents), and PCE slightly exceeded the cleanup level (5.7 µg/L vs. 5.0 µg/L). Additionally, chemicals detected at 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.
- No chemicals were measured above a VRP delineation or cleanup level in samples from monitoring wells MW-4b (the deepest well) or MW-6 (near the southern property boundary).

As shown on Figures 3-7 through 3-9, groundwater concentrations meet the VRP cleanup levels in all wells except those along the eastern side of the Site (MW-4a, MW-8, MW-12, and OW-72), and MW-11 along the southeastern side of the Site.

3.2.2 Chloroform

Chloroform was not detected in any monitoring wells at the Site in this event.

3.2.3 Manganese

The manganese concentration in the sample from monitoring well MW-8 remained elevated in this event (11,100 µg/L) as a result of the previous potassium permanganate injection for groundwater VOC remediation. As manganese is not a Site constituent of concern (COC) and is not regulated under HSRA, remediation of this constituent is not planned.

3.2.4 Geochemical Parameters

Recent and historical geochemical data are shown in Table 3-4. Notable observations are discussed below:

- Methane was highest in the sample from MW-12 (0.17 milligram per liter [mg/L]), and lower in the samples from MW-4a, MW-6, and MW-8 (0.077 mg/L, 0.130 mg/L, and 0.021 mg/L, respectively). Methane is produced under strongly anaerobic (reducing) conditions, the same conditions that allow the reductive dechlorination to occur. The presence of methane may indicate anaerobic conditions in these wells that would facilitate attenuation of the chlorinated VOCs.
- Nitrate was not detected in the samples from wells MW-4a, MW-6, MW-8, or MW-12, which likely indicates that nitrate is being consumed by microorganisms responsible for anaerobic degradation processes. The presence of these microorganisms could facilitate degradation of the Site COCs.
- Sulfate levels were higher in the samples from MW-4a (110 mg/L) and MW-8 (65 mg/L), and lower in the samples from MW-6 and MW-12 (2.7 mg/L and 10 mg/L, respectively). This appears to indicate that sulfate reducing conditions are more prominent in MW-6 and MW-12.
- Ferrous iron (Fe^{2+}) was detected in samples from MW-6 and MW-12 at a concentration of 1.06 mg/L and 26.4 mg/L, respectively. Ferrous iron was not detected in samples from MW-4a and MW-8, which indicates that conditions in the sump area are still somewhat oxidizing, likely as a result of the previous ISCO work.
- Oxidation-reduction potentials (ORP) in samples from MW-4a, MW-6, and MW-12 were -129.9, -0.36, and -137.6 millivolts (mv), respectively. These values indicate relatively reducing conditions, which are conducive to reductive dechlorination of chlorinated VOCs. The ORP in MW-8 was positive (45.0 mv).

3.2.5 Quality Assurance/Quality Control Samples

No chemicals were detected in any of the two trip blanks or four equipment blanks.

The analytical results for the two duplicate samples were similar to those from the original samples. Thus, the QA/QC samples did not indicate impact to the Site results from field or laboratory methods.

3.3 Efforts to Install a Monitoring Well to Delineate to the East

As noted above, BC conducted desktop research and a field reconnaissance of alternative well locations to evaluate their suitability as a location for a well to delineate the eastern boundary of the groundwater VOC plume. Alternative locations reviewed were 1) on the S&S Realty property, 2) between the S&S property line and South Atlanta Road, or 3) on Elizabeth Lane across South Atlanta Road from the S&S property.

As shown on Figure 3-10, access to the northern end of the S&S property is limited by the presence of a residence and the southern portion of the property slopes downward and is currently in the process of being actively cleared. Thus, this property is not a feasible location for the new well. Property in the Cobb County Department of Transportation (CCDOT) right of way in front of the S&S property (Figure 3-11) would be accessible to a drill rig, however, and thus this location was selected for the new well (to be designated MW-21). The potential location on Elizabeth Lane was not considered further.

An application for a utility permit was filed with the CCDOT on November 11, 2013. Utility permit no. 1113-1287 was issued by the CCDOT for the well, and the necessary bond, insurance certificate, and certification were recently obtained. It is expected that the permit will be finalized in January 2014.

Section 4

Status and Future Work

Hillshire and Rathon are on track to meet the milestones required by the EPD in their May 17, 2010 letter approving the application to the VRP for the Former Olympic Manufacturing Site. Specifically:

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

As noted in Section 2, EPD recently confirmed previous email approval of the cleanup and delineation levels presented in Table 2-3 of the December 2010 progress report for this Site, subject to seven exceptions. These changes to the groundwater standards have been incorporated into this report and are used to assess compliance.

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.

4.1.1 On-site Horizontal Delineation

On-site horizontal groundwater delineation has already been completed.

4.1.2 Off-site Horizontal Delineation

As noted in the June 2013 report, Hillshire and Rathon had believed that as no VOCs were detected in the most downgradient well (MW-20), groundwater delineation was complete. In our September 19, 2013 meeting, however, EPD requested an additional delineation well to the east in order to better define the width of the plume. As noted in Section 2, alternative locations for this well have been evaluated and a utility permit to install the well in the CCDOT right of way is expected in early January 2014.

The concentrations of Site COCs in the monitoring well on-site at the southern end of the Former Olympic Manufacturing property (MW-6) meet the delineation standards and the off-site wells to the southwest (MW-9a and MW-9b) are located hydrogeologically upgradient of the Site. Thus, no additional delineation to the south is warranted. Hillshire and Rathon have taken EPD's suggestions on the OA property issues under advisement, with further communication anticipated in early 2014.

4.1.3 Vertical Delineation

Vertical delineation has been completed. No VOCs were detected in the groundwater sample from the deepest well at the Site (monitoring well MW-4b).

4.2 Status Relative to Cleanup Levels

Soil at the Site is in compliance with the soil cleanup levels. As indicated in EPD's November 25, 2013 letter, sampling was recently conducted by the new owner of the property, Airgas Refrigerants, Inc. (Airgas) in the area where PCE concentrations had previously exceeded the risk reduction standards (RRSs). The sample results indicated a PCE concentration below the RRSs. Thus, no additional soil sampling or remediation is planned.

The status of the Site groundwater relative to the proposed VRP cleanup levels is presented in Table 3-2, where the orange cells indicate concentrations above the VRP cleanup levels. Figures 3-7 through 3-9 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-8, MW-12, and OW-72) currently exceed the VRP cleanup levels for one to five chemicals. Further downgradient in monitoring wells OW-74A and MW-20, all COCs are in compliance with the cleanup levels.

Where concentrations in monitoring wells do not meet the numeric groundwater cleanup levels, groundwater modeling and institutional controls will be used to demonstrate compliance with the VRP cleanup requirements. As noted above, Hillshire and Rathon will address EPD's November 25, 2013 comments on the numerical groundwater model developed for the Site separately; however, our review indicates that the comments are unlikely to change the conclusion from the modeling that the downgradient plume concentrations will remain stable or contract both in mass and extent and will not reach the point of exposure (POE).

Environmental covenants negating future water well installation or withdrawal will also be used to prevent exposure to Site contaminants in areas where the cleanup levels are exceeded. Based on current groundwater concentrations, an environmental covenant may be required on the following properties (identified on Figure 4-1):

- The subject property currently owned by Airgas
- The adjoining property to the east and northeast owned by Wesley Properties (Wesley)
- The parcels owned by Cobb County along South Atlanta Road and Elizabeth Lane.

Hillshire and Rathon notified Wesley in December 2011 that the proposed remedial strategy for the Site involved obtaining an environmental covenant from them that would enroll their property in the VRP as a "Qualifying Property" under the Site's application and permanently restrict and prohibit the drilling of a water well on their property. No response to this letter has been received from Wesley.

To the East. Concentrations in the wells along the east side of the Site are either below or just above the VRP cleanup levels. Concentrations in well MW-2 are below the VRP cleanup criteria, and the concentration of PCE in well MW-11 in this event only slightly exceeded the cleanup level (5.7 µg/L compared to 5.0 µg/L) and was below the level in the last six events. Thus, no remediation is warranted in these areas.

To the South, West, and North. Concentrations in well MW-6 at the south end of the property were below the cleanup levels in this event, and 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:

- Obtain a copy of a sample EC that has been modified for an HSI site, and use it to finalize the environmental covenants for submittal to the off-site property owners identified in Section 4.2.
- Submit the ECs to each property owner and follow-up as needed to have the ECs successfully executed.
- Obtain utility permit from CCDOT, and install the new monitoring well between South Atlanta Road and the S&S LP property to demonstrate delineation to the east.
- Respond to EPD's comments on the groundwater modeling Technical Memorandum presented in EPD's November 25, 2013 letter.
- Consider alternatives and further consult and report to EPD respecting course of action on OA property issues.

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 can be demonstrated with the modeling and institutional controls described herein. In addition to the activities outlined below, semiannual progress reports will also be submitted by June 30 and December 31 of each year until submittal of the final Compliance Status Report.

In the December 2011 semiannual report, Hillshire and Rathon requested that the VRP schedule milestones be adjusted to be consistent with the schedule for submittal of the semiannual progress reports approved in EPD's September 3, 2010 letter. The schedule below reflects this adjustment.

Estimated Schedule	
Action	**Expected Date**
On-site Horizontal Delineation	Completed
Vertical Delineation	Completed
Submittal of Remediation Plan and Cost Estimate	Completed
Install Monitoring Well to the East	January 2014
Respond to EPD Comments on Groundwater Modeling	January 2014
Pursue Environmental Covenants with Airgas, Wesley, and Cobb County	Early 2014
Finalize Environmental Covenants	Mid-2014
Semiannual Sampling	April, October 2014
Submittal of Final Compliance Status Report	May 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 June 22 and December 12, 2013.

Section 6

References

U.S. Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD); Athens, Georgia. *Groundwater Sampling Operating Procedure*. March 6, 2013.

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

Section 7

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.

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LEGEND

- Existing Monitoring Wells
- Potential Locations for MW-21

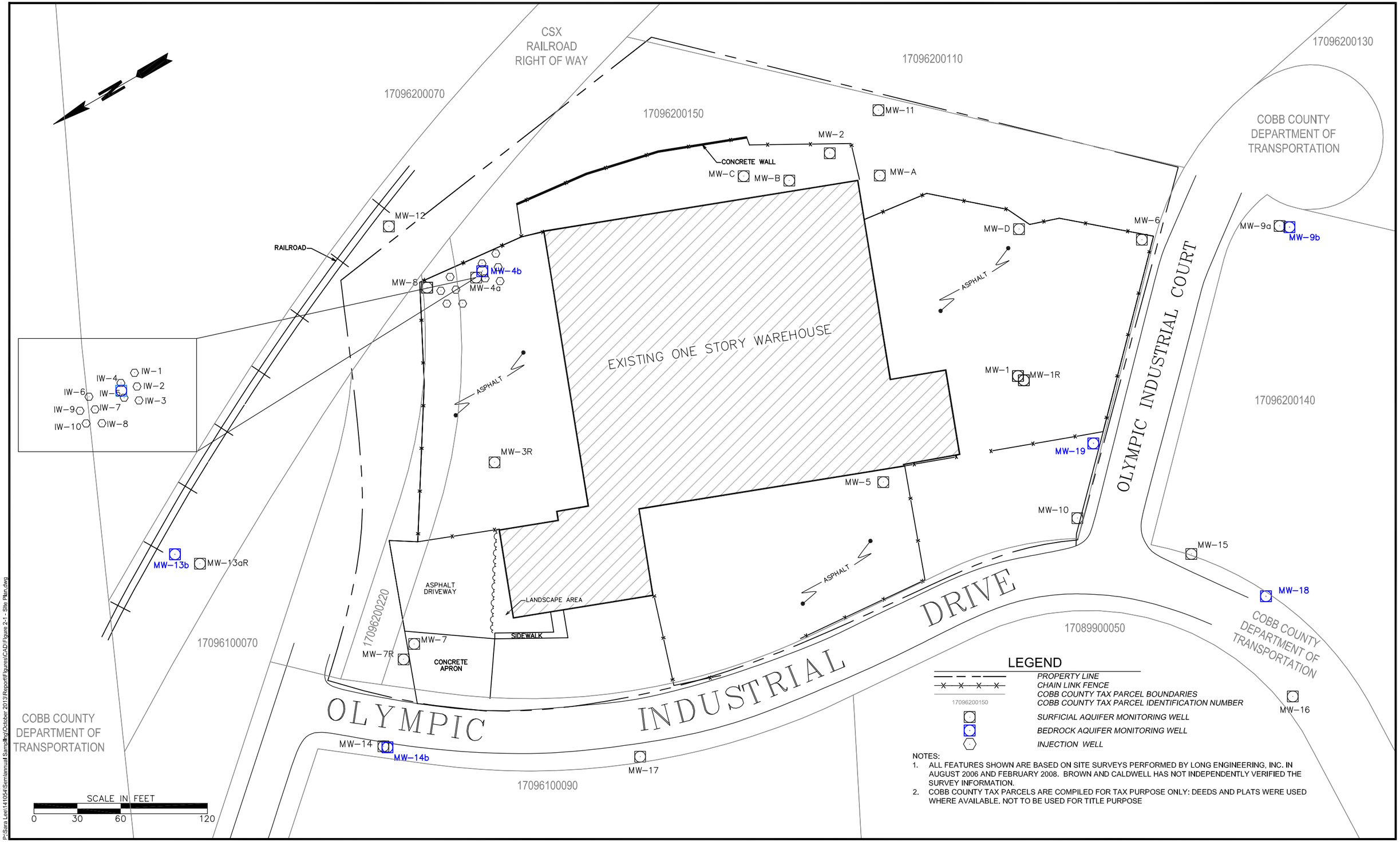
17096200150 Number provided is the Cobb County Tax Parcel Identification Number (PIN)

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	12/23/2013
SCALE:	AS SHOWN
DRAWN BY:	BAS
CHECKED BY:	PCR
PROJECT #:	141054

Figure 2-1
Potential New Delineation Well Locations



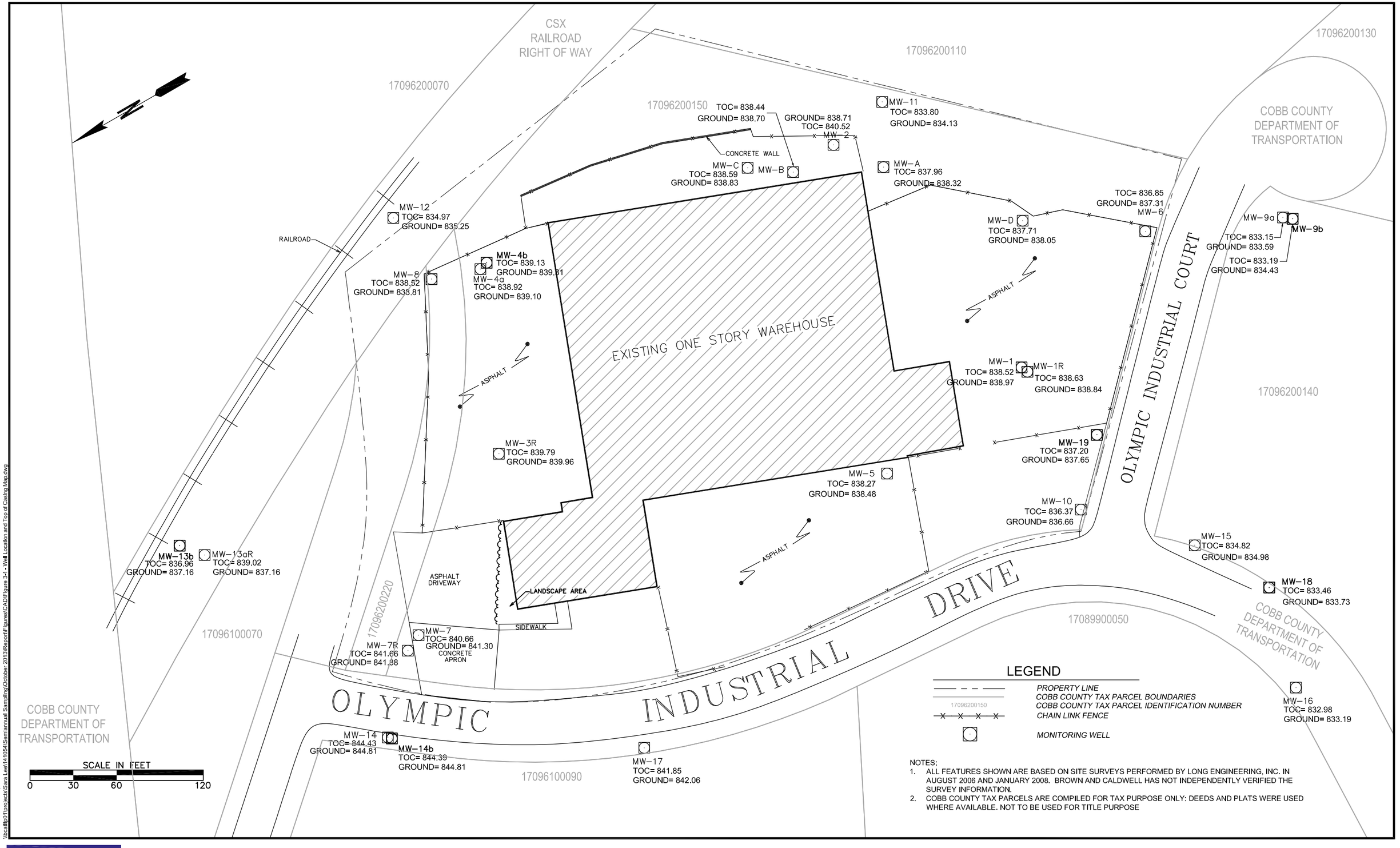
Dec 19, 2013 - 1:47pm bsteele
P:\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 2-1 - Site Plan.dwg

Brown AND Caldwell

FIGURE 2-2

Site Plan

Former Olympic Manufacturing Site, Smyrna, Georgia

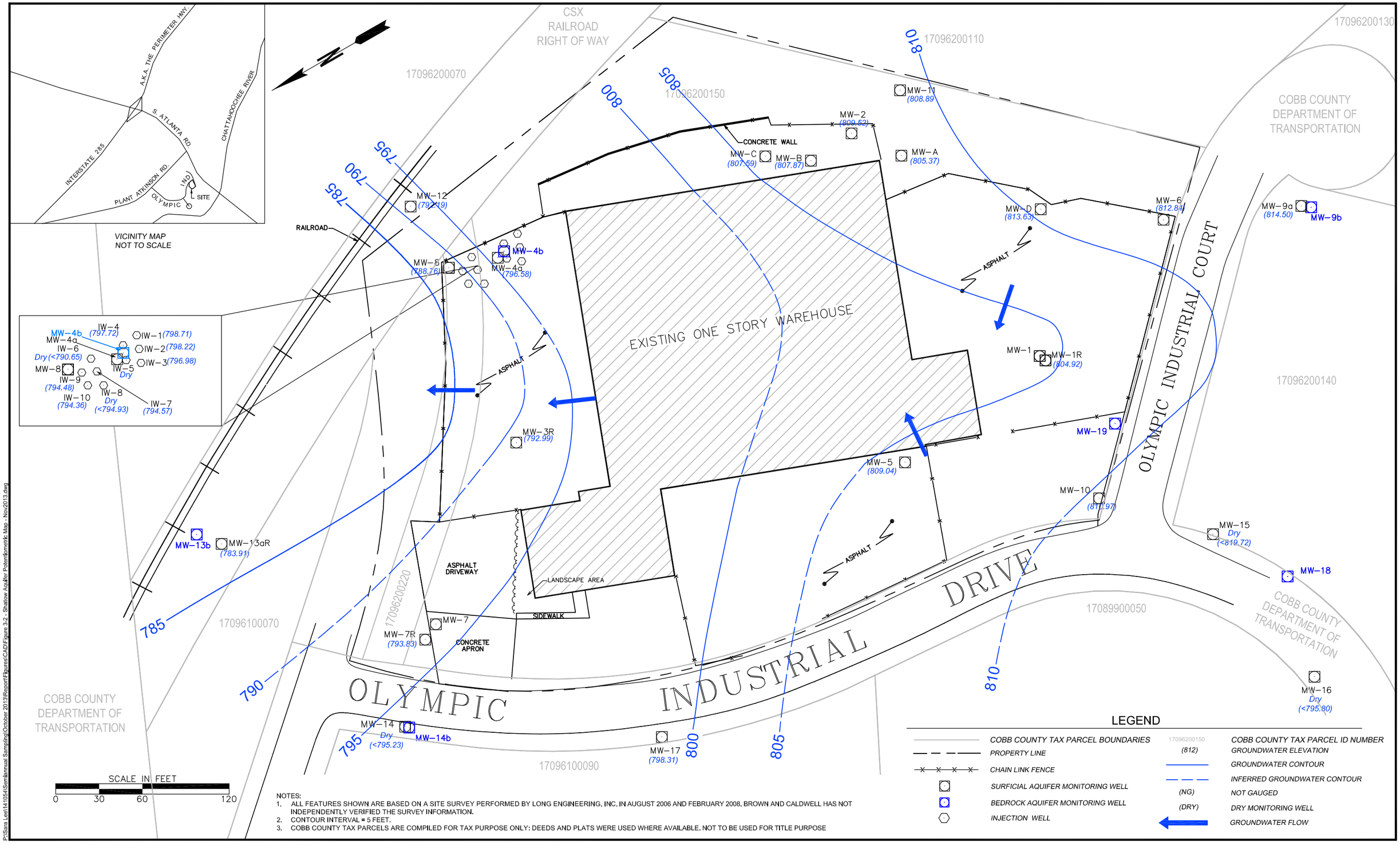


Dec 11, 2013 - 2:00pm bsteele
\\bcalfp01\projects\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-1 - Well Location and Top of Casing Map.dwg

Brown AND Caldwell

FIGURE 3–1

Well Location and Top of Casing Elevation Map
Former Olympic Manufacturing Site, Smyrna, Georgia

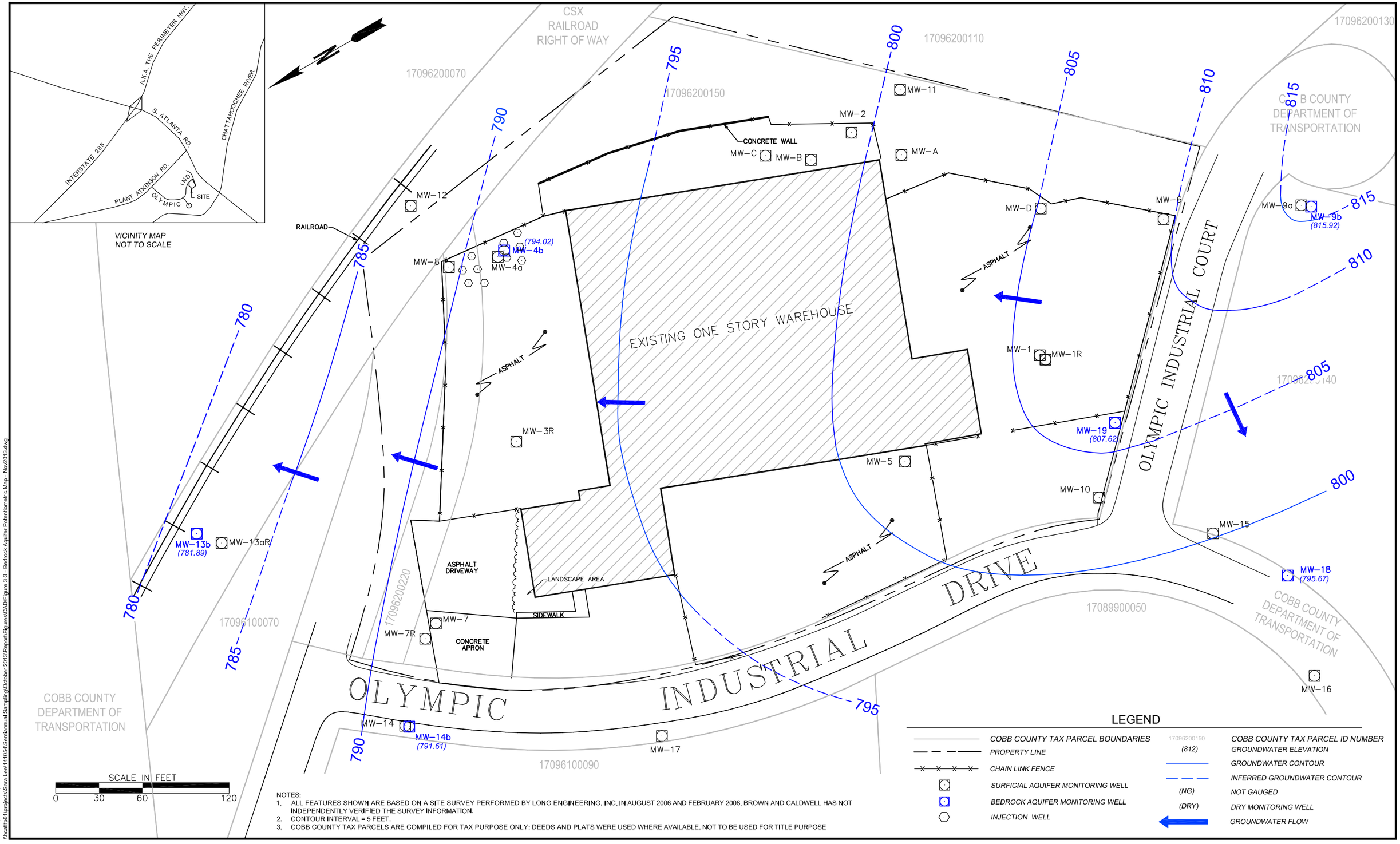


NOTES:
1. ALL FEATURES SHOWN ARE BASED ON A SITE SURVEY PERFORMED BY LONG ENGINEERING, INC. IN AUGUST 2006 AND FEBRUARY 2008. BROWN AND CALDWELL HAS NOT INDEPENDENTLY VERIFIED THE SURVEY INFORMATION.
2. CONTOUR INTERVAL = 5 FEET.
3. COBB COUNTY TAX PARCELS ARE COMPILED FOR TAX PURPOSE ONLY: DEEDS AND PLATS WERE USED WHERE AVAILABLE. NOT TO BE USED FOR TITLE PURPOSE

Dec 23, 2013 - 8:48am bsteele
P:\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-2 - Shallow Aquifer Potentiometric Map - Nov2013.dwg

Brown AND Caldwell

FIGURE 3-2
Shallow Aquifer Potentiometric Map
October 29, 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



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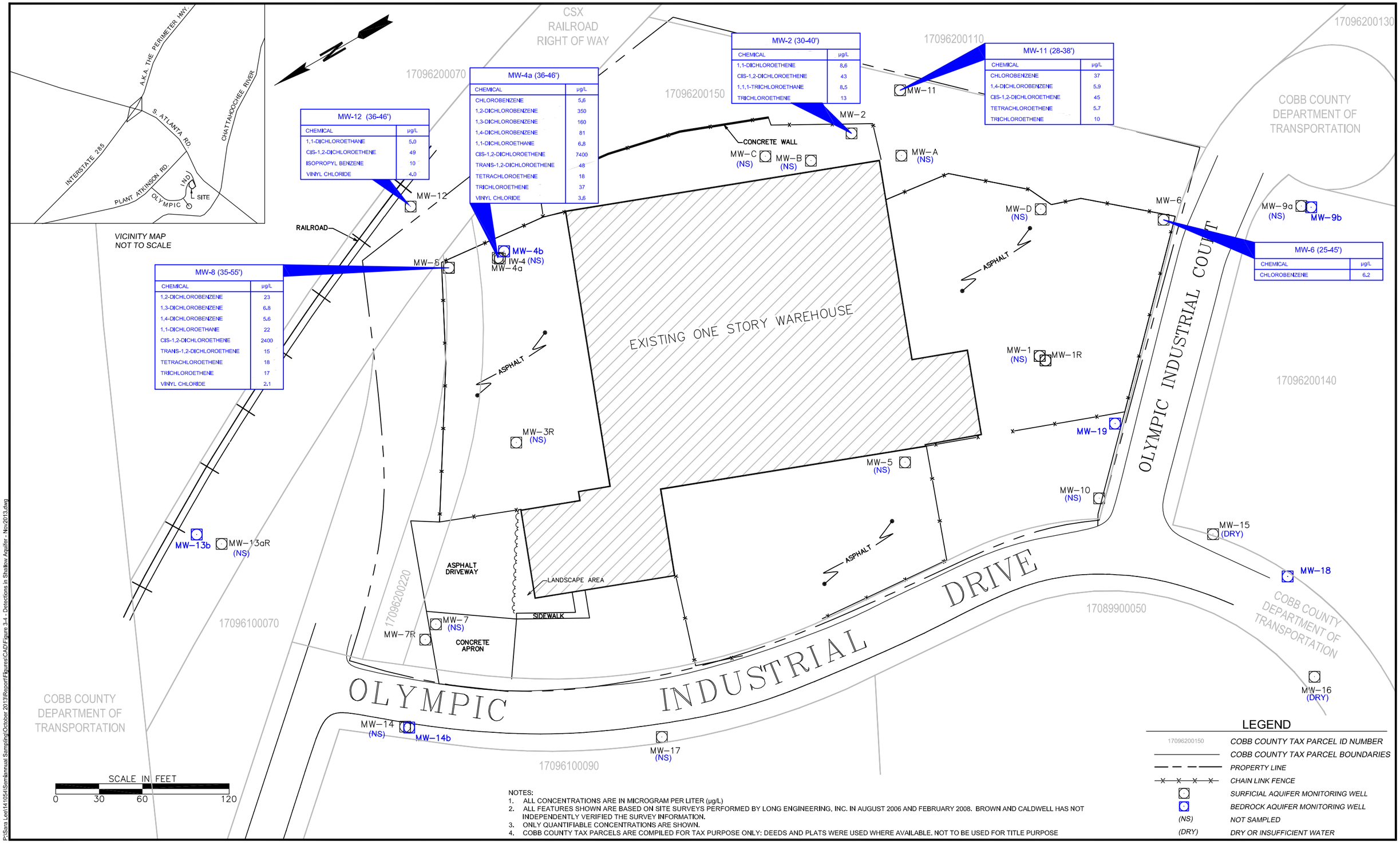
1. ALL FEATURES SHOWN ARE BASED ON A SITE SURVEY PERFORMED BY LONG ENGINEERING, INC. IN AUGUST 2006 AND FEBRUARY 2008. BROWN AND CALDWELL HAS NOT INDEPENDENTLY VERIFIED THE SURVEY INFORMATION.
2. CONTOUR INTERVAL = 5 FEET.
3. COBB COUNTY TAX PARCELS ARE COMPILED FOR TAX PURPOSE ONLY: DEEDS AND PLATS WERE USED WHERE AVAILABLE. NOT TO BE USED FOR TITLE PURPOSE

Dec 11, 2013 - 1:34pm bsteele
\\bcafil01\projects\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-3 - Bedrock Aquifer Potentiometric Map - Nov2013.dwg

Brown AND Caldwell

FIGURE 3-3

Bedrock Aquifer Potentiometric Map
October 29, 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



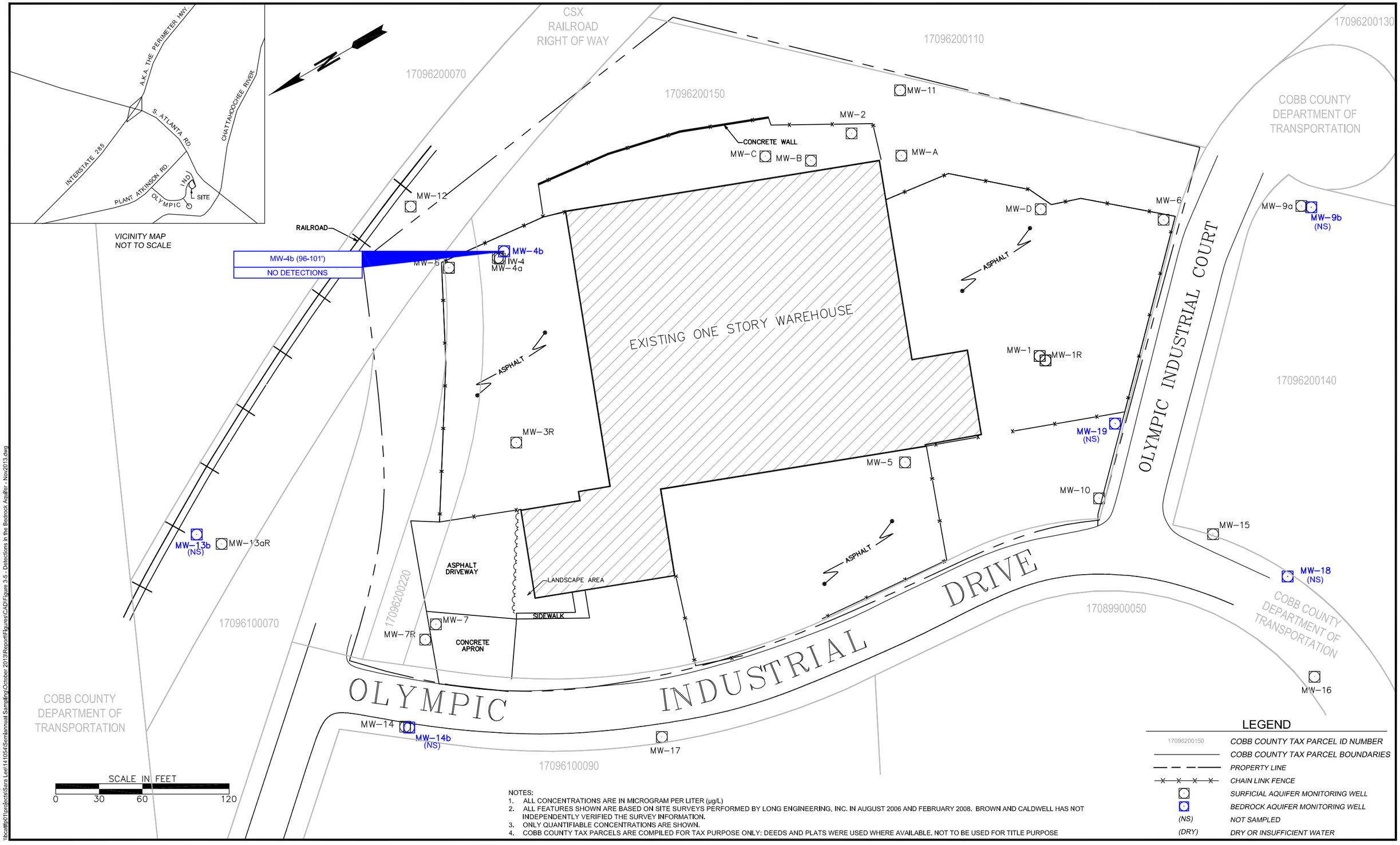
NOTES:
1. ALL CONCENTRATIONS ARE IN MICROGRAM PER LITER (µg/L)
2. ALL FEATURES SHOWN ARE BASED ON SITE SURVEYS PERFORMED BY LONG ENGINEERING, INC. IN AUGUST 2006 AND FEBRUARY 2008. BROWN AND CALDWELL HAS NOT INDEPENDENTLY VERIFIED THE SURVEY INFORMATION.
3. ONLY QUANTIFIABLE CONCENTRATIONS ARE SHOWN.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

Dec 12, 2013 - 11:17am bsteele
P:\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-4 - Detections in Shallow Aquifer - Nov2013.dwg

Brown AND Caldwell

FIGURE 3-4

Groundwater Detections in the Shallow Aquifer
October 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



NOTES:
1. ALL CONCENTRATIONS ARE IN MICROGRAM PER LITER (µg/L)
2. 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.
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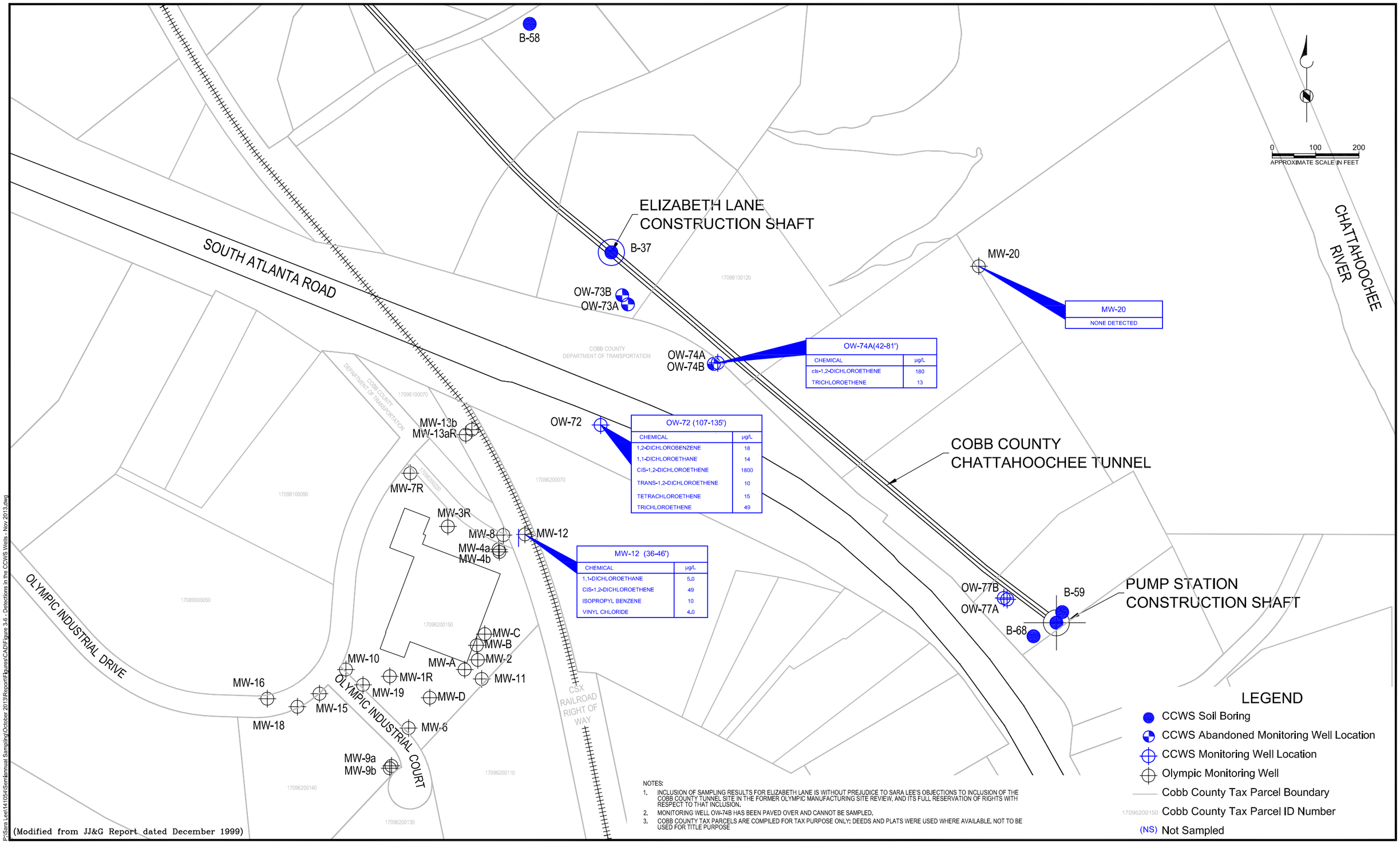
Dec 11, 2013 - 2:47pm bsteele
\\bcattfp01\projects\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-5 - Detections in the Bedrock Aquifer - Nov2013.dwg

Brown AND Caldwell

FIGURE 3–5

Groundwater Detections in the Bedrock Aquifer
October 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



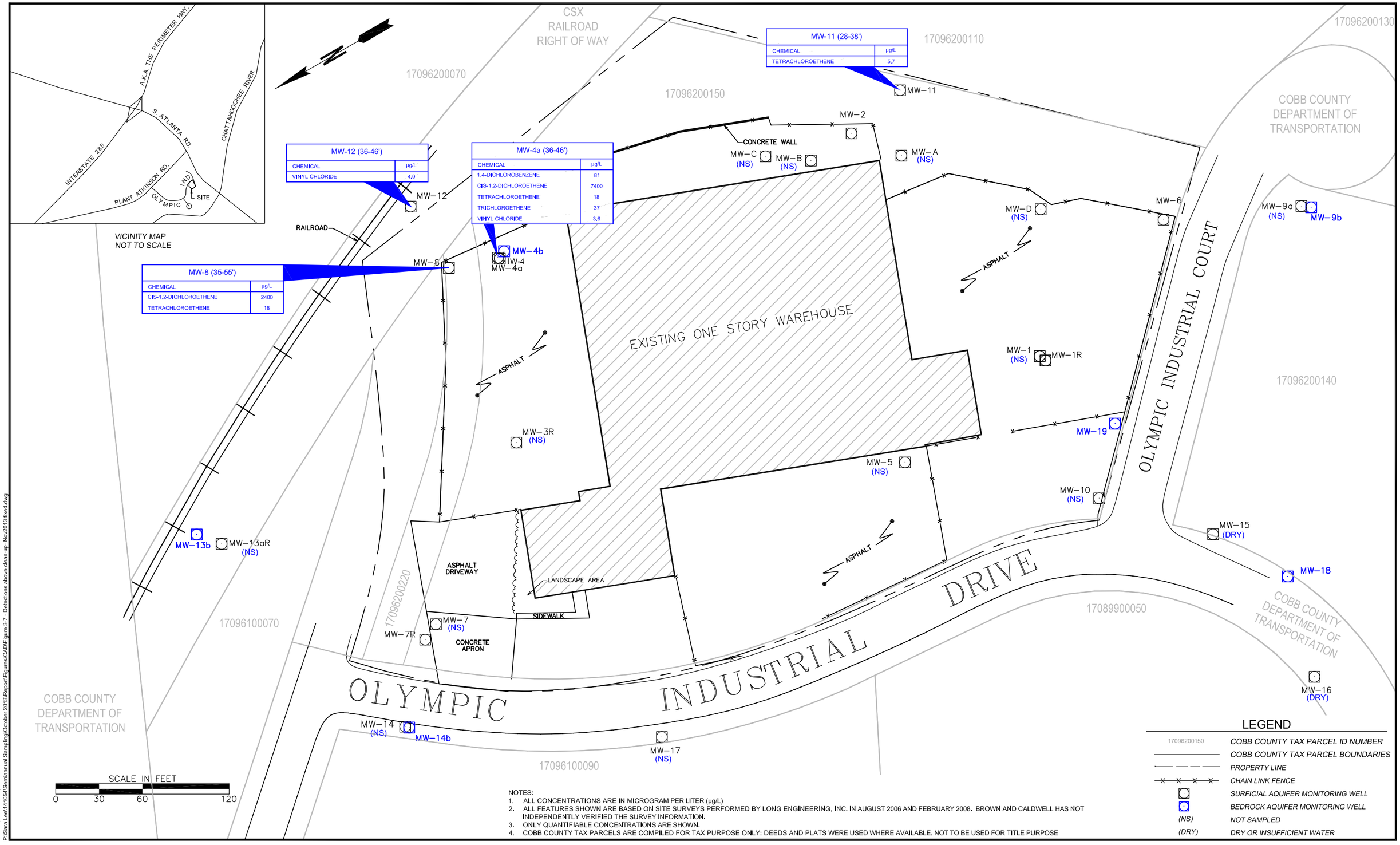
Dec 12, 2013 - 11:24am bsteele
P:\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-6 - Detections in the CCWS Wells - Nov 2013.dwg

Brown AND Caldwell

FIGURE 3-6

Groundwater Detections in CCWS Wells, October 2013

Former Olympic Manufacturing Site, Smyrna, Georgia



NOTES:
1. ALL CONCENTRATIONS ARE IN MICROGRAM PER LITER (µg/L)
2. 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.
3. ONLY QUANTIFIABLE CONCENTRATIONS ARE SHOWN.
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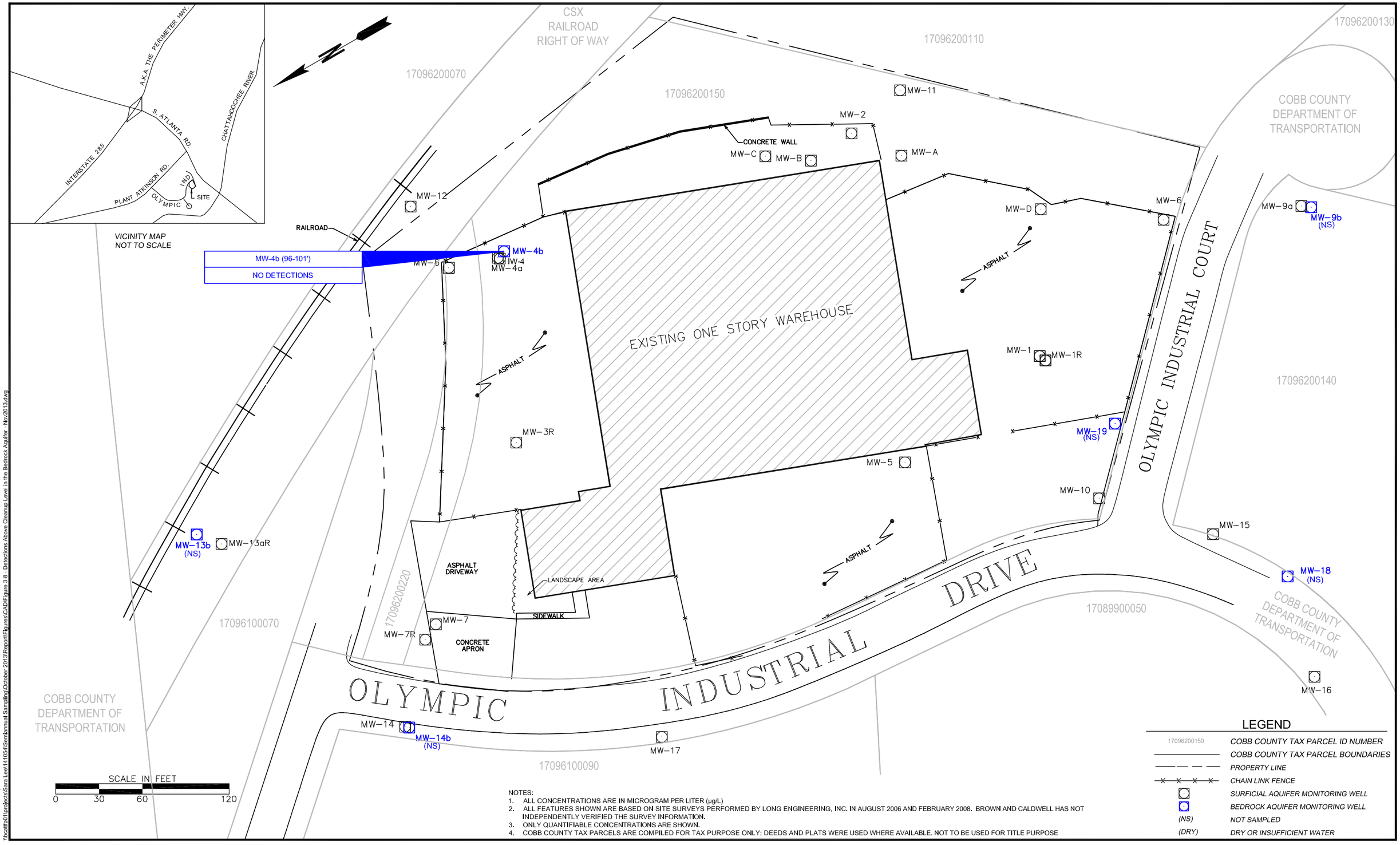
P:\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-7 - Detections above clean-up- Nov2013 fixed.dwg

Brown AND Caldwell

FIGURE 3-7

Groundwater Detections Above the Cleanup Level
Shallow Aquifer, October 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



NOTES:
1. ALL CONCENTRATIONS ARE IN MICROGRAM PER LITER (µg/L)
2. 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.
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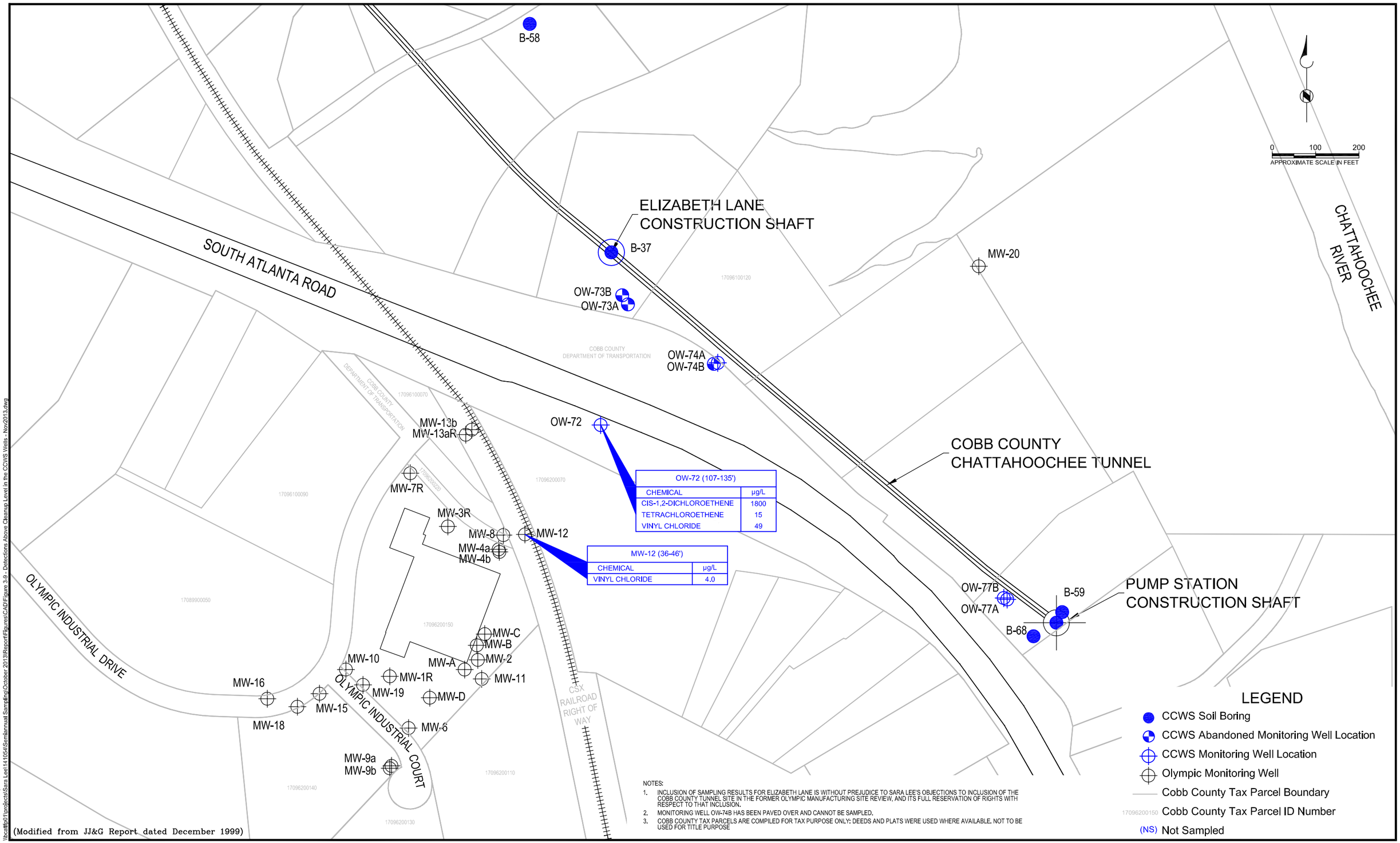
Dec 11, 2013 - 2:49pm bsteele
\\bcalfp01\projects\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-8 - Detections Above Cleanup Level in the Bedrock Aquifer - Nov2013.dwg

Brown AND Caldwell

FIGURE 3-8

Groundwater Detections Above the Cleanup Level
Bedrock Aquifer, October 2013
Former Olympic Manufacturing Site, Smyrna, Georgia



NOTES:

1. INCLUSION OF SAMPLING RESULTS FOR ELIZABETH LANE IS WITHOUT PREJUDICE TO SARA LEE'S OBJECTIONS TO INCLUSION OF THE COBB COUNTY TUNNEL SITE IN THE FORMER OLYMPIC MANUFACTURING SITE REVIEW, AND ITS FULL RESERVATION OF RIGHTS WITH RESPECT TO THAT INCLUSION.
2. MONITORING WELL OW-74B HAS BEEN PAVED OVER AND CANNOT BE SAMPLED.
3. COBB COUNTY TAX PARCELS ARE COMPILED FOR TAX PURPOSE ONLY; DEEDS AND PLATS WERE USED WHERE AVAILABLE. NOT TO BE USED FOR TITLE PURPOSE

(Modified from JJ&G Report dated December 1999)

Dec 11, 2013 - 5:57pm bsteele
\\calfil01\projects\Sara Lee\141054\Semiannual Sampling\October 2013\Report\Figures\CAD\Figure 3-9 - Detections Above Cleanup Level in the CCWS Wells - Nov2013.dwg

Brown AND Caldwell

FIGURE 3–9

Groundwater Detections above the Cleanup Level
CCWS Wells, October 2013
Former Olympic Manufacturing Site, Smyrna, Georgia

Figure 3-10. View of S&S Realty LP Site, Facing Southwest

Figure 3-11. View of Proposed New Well Location (marked with white pad), from South Atlanta Road

Former Olympic Manufacturing Site
3051 Olympic Industrial Drive
Smyrna, Georgia

Brown AND Caldwell

SAVED DATE:	12/23/2013
SCALE:	AS SHOWN
DRAWN BY:	RPJ
CHECKED BY:	TR
PROJECT #:	141054

Figure 4-1
Location of Proposed Monitoring Well MW-21

Smyrna, Georgia

Accessed By: BSTEELE at 12/23/2013 09:34

R:\Projects\Sara_Lee\Mapdocs\141054\ProposedMonitoringWell.mxd

Table 2-1. Semiannual Groundwater Sampling Protocol, October 2013 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		----	Water level only
MW-9b		----	Water level only
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-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	
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 (TOC), nitrate, sulfate, ferrous iron, and methane.

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	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	Oct-13
MW-1	838.52	31.74	31.14	31.63	30.6	33.89	33.69	32.76[d]	33.92	ng[b]	35.35	ng	34.85	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng	ng
MW-1R	838.63	ni[c]	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
MW-2	840.52	32.18	30.18	31.75	26.31	37.48	36.81	29.02[d]	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
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
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
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
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
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
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
MW-6[d]	836.85	26.59	24.38	24.29	21.24	28.12	26.62	16.45[d]	21.67	23.75	25.99	ng	25.33	26.69	ng	18.36[d]	19.7[d]	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
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
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
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
MW-9a[d]	833.15	ni	ni	ni	ni	21.34	19.41	18.18[d]	17.25	18.17	20.31	ng	19.77	20.29	ng	17.14[d]	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
MW-9b[d,e]	833.19	ni	ni	ni	ni	22.55	20.38	20.69[d]	31.01	31.81	34.94	ng	34.26	25.84	ng	22.05[d]	24.88[d]	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
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
MW-11	833.80	ni	ni	ni	ni	29.8	27.74	20.07[d]	23.37	ng	26.15	ng	26.10	26.32	ng	32.15[d]	31.30[d]	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
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
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
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
MW-13b[e]	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
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
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	47.41	47.73	49.48	51.18	ng	55.09	56.69	56.17	52.78
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
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
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
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
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
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
MW-A	837.96	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	ni	29.3[f]	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

[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).

[b] "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.

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

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

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

[f] MW-A was gauged in September 2006. Initial reading in MW-14b in October 2009 was inconsistent with past readings; thus MW-14b was regauged on November 13, 2009.

[g] 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.

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	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13
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
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	803.19	801.93	804.59	804.92
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	803.15	798.45	805.29	809.52
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
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	788.14	786.12	786.89	792.99
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
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	Dry	Dry	Dry	Dry	796.58
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	788.60	786.57	788.13	794.02
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	809.14	807.32	809.89	809.04
MW-6[d]	836.85	810.68	812.89	812.98	816.03	809.15	810.65	820.82[d]	815.60	813.52	810.86	ng	ng	811.52	810.16	ng	818.49[d]	817.15[d]	813.43	810.03	811.89	813.24	813.47	809.30	812.06	808.27	809.04	806.65	813.43	812.84
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
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	792.16	791.04	791.94	793.83
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	788.97	786.14	789.31	788.76
MW-9a[d]	833.15	ni	ni	ni	ni	812.39	814.32	815.55[d]	816.48	815.56	812.84	ng	ng	813.38	812.86	ng	816.01[d]	816.00[d]	814.69	812.03	814.79	814.69	813.86	811.60	813.83	809.67	811.81	809.25	814.45	814.50
MW-9b[d,e]	833.19	ni	ni	ni	ni	810.97	813.14	812.83[d]	802.51	801.38	798.25	ng	ng	798.93	807.35	ng	811.14[d]	808.31[d]	809.84	809.98	814.11	814.39	813.66	811.00	813.27	809.39	810.99	808.70	814.09	815.92
MW-10	836.37	ni	ni	ni	ni	812.74	812.87	812.64	812.5	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	812.55	810.15	811.71	810.97
MW-11	833.80	ni	ni	ni	ni	804.61	806.67	814.34[d]	811.04	ng	807.65	ng	ng	807.70	807.48	ng	801.65[d]	802.50[d]	809.65	800.52	808.34	807.15	814.17	804.15	809.61	800.13	803.22	796.28	808.30	808.89
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	789.61	Dry	791.39	792.19
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
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	786.30	784.14	784.97	783.91
MW-13b[e]	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	784.11	781.79	783.65	781.89
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	Dry	Dry	Dry	Dry
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	789.30	787.70	788.22	791.61
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	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	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	796.93	794.98	798.69	798.31
MW-18	833.46	ni	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	801.36	797.68	795.86	795.67
MW-19	837.20	ni	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	807.67	806.94	808.00	807.62
MW-20		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
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	804.21	799.95	806.36	805.37
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	801.32	797.42	802.84	807.87
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	801.16	797.35	802.71	807.59
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	806.50	803.83	808.59	813.63
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	781.21	778.44	781.27	785.42
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	779.39	776.30	779.88	782.34
OW-74B	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
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	794.99	791.90	797.29	798.71
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	793.06	792.80	795.96	798.22
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	792.03	792.43	792.89	796.98
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	793.44	791.57	795.77	797.72
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	791.19	791.07	791.02	Dry
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	Dry	Dry	Dry	Dry
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	790.15	790.19	790.11	794.57
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	Dry	Dry	Dry	Dry
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	790.03	790.08	789.90	794.48
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	Dry	Dry	790.28	794.36

[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).

[b] "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.

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

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

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

[f] MW-A was gauged in September 2006. Initial reading in MW-14b in October 2009 was inconsistent with past readings; thus MW-14b was regauged on November 13, 2009.

[g] 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.

Table 3-2. Analytical Detections for October 2013 Groundwater Samples
Former Olympic Manufacturing Site, Smyrna, Georgia

Constituent	Concentration (micrograms per liter)																	
	MW-2	MW-4a	MW-4b	MW-6	MW-8	MW-11	MW-12	MW-15	MW-16	MW-20	OW-72	OW-74A	13301-EB	13302-EB	13303-EB	13303-DUP-1 (MW-8)	VRP Delineation Level	VRP Cleanup Level
Screened Interval, bgs	30 to 40	36 to 46	96 to 101	25 to 45	35 to 55	28 to 38	36 to 46	5 to 15	27 to 37	33 to 43	107 to 135	42 to 81						
Sampling Date	10/28/13	10/30/13	10/29/13	10/29/13	10/30/13	10/28/13	10/29/13	ns[a]	ns	10/28/13	10/29/13	10/29/13	10/28/13	10/29/13	10/30/13	10/30/13		
Volatile Organics, Method 8260B																		
Chlorobenzene	<5.0	**5.6**	<5.0	**6.2**	<5.0	**37**	<5.0	ns	ns	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	100	136
1,2-Dichlorobenzene	<5.0	**350**	<5.0	<5.0	**23**	<5.0	<5.0			<5.0	**18**	<5.0	<5.0	<5.0	<5.0	**23**	600	600
1,3-Dichlorobenzene	<5.0	**160**	<5.0	<5.0	**6.8**	<5.0	<5.0			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**6.9**	600	600
1,4-Dichlorobenzene	<5.0	**81**	<5.0	<5.0	**5.6**	**5.9**	<5.0			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**5.3**	75	75
1,1-Dichloroethane	<5.0	**6.8**	<5.0	<5.0	**22**	<5.0	**5.0**			<5.0	**14**	<5.0	<5.0	<5.0	<5.0	**23**	4,000	4,000
1,1-Dichloroethene	**8.6**	<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	7.0	524
cis-1,2-Dichloroethene	**43**	**7,400**	<5.0	<5.0	**2,400**	**45**	**49**			<5.0	**1,800**	**180**	<5.0	<5.0	<5.0	**2,600**	70	1,020
trans-1,2-Dichloroethene	<5.0	**48**	<5.0	<5.0	**15**	<5.0	<5.0			<5.0	**10**	<5.0	<5.0	<5.0	<5.0	**15**	100	161
Isopropyl benzene	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**10**			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	207
Tetrachloroethene	<5.0	**18**	<5.0	<5.0	**18**	**5.7**	<5.0			<5.0	**15**	<5.0	<5.0	<5.0	<5.0	**17**	5.0	5.0
1,1,1-Trichloroethane	**8.5**	<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	200	200
Trichloroethene	**13**	**37**	<5.0	<5.0	**17**	**10**	<5.0			<5.0	**49**	**13**	<5.0	<5.0	<5.0	**16**	5.0	35
Vinyl Chloride	<2.0	**3.6**	<2.0	<2.0	**2.1**	<2.0	**4.0**			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**2.0**	2.0	3.3
Total VOCs Detected	73.1	8,110.0	< 5.0	6.2	2,509.5	103.6	68.0	ns	ns	< 5.0	1,906.0	193.0	< 5.0	< 5.0	< 5.0	2,708.2		
Metals, Method 6010B																		
Manganese	na[b]	na	na	na	11,100	na	na	ns	ns	na	na	na	na	na	na	**11,200**	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 Reporting Limit

= Exceeds VRP Delineation and Cleanup Levels for Groundwater (ug/L).

= Exceeds VRP Delineation Level for Groundwater (ug/L).

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
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	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																																																															
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	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50
Benzene	5	4.4	8.7	< 5	< 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	< 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	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	< 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	na	na	< 12.0	< 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	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50
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	< 5	na	na	na	na	na	na	na	na	na	na	na	na	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	< 5	na	na	na	na	na	na	na	na	na	na	na	na	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	< 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																											
Chlorobenzene	100	27	136	< 5	< 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	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	100	nc	nc	< 5	< 10	< 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	< 5.0	< 20	< 5	< 0.6	< 10	< 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
1,2-Dichlorobenzene	600	nc	nc	< 5	< 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	33	6.4	8	13	36	55	12	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	< 5	< 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	< 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	< 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	6	< 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-Dichloroethane	4,000	nc	nc	5	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	140	36	34	16	37	58	22	15	< 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	< 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	< 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	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	69	34	17	14	24	42	15	15	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	961	160	160	150	290	480	160	110	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	50	< 5	< 5	7.2	13	11	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	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	1,011	165	165	157.2	303	491	165	115	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethylbenzene	700	nc	nc	< 5	< 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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 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	< 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	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	5	nc	nc	< 5	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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 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	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
Toluene	1,000	nc	nc	< 5	< 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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	200	nc	nc	< 5	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	118	47	59	< 5	28	52	18	15	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	5	nc	nc	< 5	< 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	< 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	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	433	120	130	66	150	200	51	48	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	na	na	< 5	< 5	< 5	na	na	na	na	na	na	na	na	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	< 5	na	na	na	na	na	na	na	na	na	na	na	na	na	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	< 2	< 5	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
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	< 10	na	na	na	< 5	na	< 5	< 5	< 5	na	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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	< 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	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	<10	na	na	na	< 5	0.59	< 5	< 5	< 5	< 5	< 15	< 5	< 15	< 15	< 15	< 15	< 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	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-cres	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																					
Barium	2,000	nc	nc			< 2	10	< 200	na	81	31	< 20	< 30	< 20	< 20	25.8	< 20	395	na	na		na											< 2	280	220		196	208	145	100	152	186	103	< 20	60.7									
Cadmium	5	7.8	51			< 4	na	na	na	< 5	< 5	< 10	< 5	< 5	< 5	< 5	< 5	< 5	na	na		na											< 4	na	na		< 5	5	< 10	18	12.5	8.8	< 5	< 5	< 5									
Chromium	100	47	310			< 3	< 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	< 10	< 10	19.8	< 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	39	40.5	32.8	15.6	< 10	17.6									
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	30	12.5	12.3	< 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	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	623	379	301	186	100	263									
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	150	101	112	49.5	< 20	80.7									

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

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

[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

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

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-2 30 to 40 ft bg Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13
Volatile Organics, Method 8260												
Acetone	4,000	nc[g]	nc	< 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	< 5.0	< 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
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na
sec- Butylbenzene	5	626	4,088	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	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5	4.9	10		< 5.0	5.8	< 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
Chloroethane	10	nc	nc	< 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
Dibromochloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	600	nc	nc	8.8	9.5	< 5.0	9.8	5.2	9.0	<5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	600	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	4,000	nc	nc	22	25	29	33	24	29	55	< 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
1,1-Dichloroethene	7	103	524	22	23	26	17	16	14	12	< 5.0	8.6
cis-1,2-Dichloroethene	70	156	1,020	250	300	230	420	270	350	660	17	43
trans-1,2-Dichloroethene	100	32	161	5.0	6.9	5.6	43	< 5.0	< 5.0	6	< 5.0	< 5.0
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	255	306.9	235.6	463	275	355	665.6	22	48
Ethylbenzene	700	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	5	207	nc	< 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
Methylene chloride	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	20	nc	nc	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	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	1.3	3.9	< 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	< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	200	nc	nc	23	36	40	34	28	26	35	< 5.0	8.5
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
Trichloroethene	5	18	35	84	96	98	87	73	68	49	< 5.0	13
Trichlorofluoromethane	2,000	nc	nc	< 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
1,3,5-Trimethylbenzene				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	< 2.0	< 2.0	< 2.0
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0
o-Xylene	nc	nc	nc	< 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	<10	< 10
Semi-Volatile Organics, Method 8270				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-cres	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
Barium	2,000	nc	nc									
Cadmium	5	7.8	51									
Chromium	100	47	310									
Copper	1,300	630	4,090									
Lead	15	15	15									
Manganese	ne	ne	ne									
Nickel	100	310	2,040									
Zinc	2,000	4,700	nc									

Parameter	MW-3 35 to 45 ft bg 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	na	na	< 2.6	< 100	< 10	na	< 100	< 100	< 5		
Benzene	< 5	< 5	< 0.3	< 2	< 0.20	< 5	< 5	< 5	< 5		
Bromodichloromethane	nr	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5		
2-Butanone	na	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10		
n-Butylbenzene	na	na	na	< 10	na	< 5	< 5	< 5	na		
sec- Butylbenzene	na	na	na	< 10	na	< 5	< 5	< 5	na		
Carbon disulfide	na	na	na	< 10	< 5	na	< 5	< 5	< 5		
Carbon Tetrachloride											
Chlorobenzene	< 5	< 5	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5		
Chloroethane	< 10	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5		
Chloroform	< 5		< 0.7	< 2	< 0.19	< 5	< 5	< 5	< 5		
Dibromochloromethane	< 5	< 5	< 0.6	< 5	< 5	< 5	< 5	< 5	< 5		
1,2-Dichlorobenzene	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
1,3-Dichlorobenzene	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
1,4-Dichlorobenzene	< 5	< 5	na	< 10	NAV	< 5	< 5	< 5	na		
1,1-Dichloroethane	< 5	1.3 J	< 0.8	< 2	< 0.15	< 5	< 5	< 5	< 5		
1,2-Dichloroethane	< 5	< 5	< 0.5	< 2	< 0.12	4 J	< 5	< 5	< 5		
1,1-Dichloroethene	< 5	< 5	1.3 E	< 2	0.74	< 5	< 5	< 5	< 5		
cis-1,2-Dichloroethene	na	na	15	110	na	< 5	< 5	8	na		
trans-1,2-Dichloroethene	na	43	1.8 E	< 2	1.8	< 5	< 5	< 5	na		
Total 1,2-Dichloroethene	na	43	16.8 E	112	1.8	< 10	< 10	13	< 5		
Ethylbenzene	< 5	< 5	< 1.0	< 2	0.88	< 5	< 5	< 5	< 5		
Isopropylbenzene	na	na	na	< 10	na	< 5	< 5	< 5	na		
p- Isopropyl toluene	na	na	na	< 10	na	< 5	< 5	< 5	na		
Methylene chloride	< 5	8.5	11 E	< 5	< 5	< 5	< 5	< 5	< 5		
Naphthalene	na	na	na	< 10	NAV	< 5	< 5	< 5	na		
Styrene	na	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5		
Tetrachloroethene	9	9.3	16	42	15	10	11	16	5.7		
Toluene	< 5	< 5	< 0.9	< 2	0.53	< 5	< 5	< 5	< 5		
1,1,1-Trichloroethane	< 5	< 5	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5		
1,1,2-Trichloroethane	< 5	< 5	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5		
Trichloroethene	11	7.2	5.6	69	14	< 5	< 5	5	< 5		
Trichlorofluoromethane	< 5	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na		
1,2,4-Trimethylbenzene	na	na	na	< 10	na	< 5	< 5	< 5	na		
1,3,5-Trimethylbenzene	na	na	na	< 10	na	< 5	< 5	< 5	na		
Vinyl Chloride	< 10	< 10	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5		
m&p-Xylene	na	na	na	< 5	na	< 5	< 5	< 5	na		
o-Xylene	na	na	na	< 5	na	< 5	< 5	< 5	na		
Total Xylene	na	na	< 0.2	< 5	1.5	< 5	< 5	< 5	< 5		
Semi-Volatile Organics, Method 8270	na	na	na						na	ns	ns
1,2-Dichlorobenzene				< 10	< 10	< 10	NASV	NASV			
1,3-Dichlorobenzene				< 10	< 10	< 10	NASV	NASV			
1,4-Dichlorobenzene				< 10	< 10	< 10	NASV	NASV			
2,4-Dimethylphenol				< 10	< 10	< 10	< 10	< 10			
Bis(2-Ethylhexyl)phthalate				< 10	< 10	< 10	< 10	< 10			
2-Methylnaphthalene				< 10	< 10	< 10	< 10	< 10			
2-Methylphenol (o-cresol)				< 10	na	< 10	< 10	< 10			
4-Methylphenol (m&p-cres				< 10	na	< 10	< 10	< 10			
Cresol (o,m,p)				< 20	< 10	< 20	< 20	< 20			
Naphthalene				< 10	< 10	< 10	< 10	< 10			
Metals, Method 6010B/7470A	na	na				na				ns	ns
Barium			< 2	30	< 200		92	186	32.8		
Cadmium			< 4	na	na		< 5	< 5	< 10		
Chromium			< 3	< 10	na		< 10	14	< 10		
Copper			na	< 20	< 25		< 10	< 20	< 10		
Lead			< 19	< 25	na		< 10	< 10	< 10		
Manganese			na	na	na		na	na	na		
Nickel			na	< 20	< 40		< 20	< 20	< 20		
Zinc			na	< 20	110		33	141	< 20		

Parameter	MW-3R 45 to 55 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
Volatile Organics, Method 8260															
Acetone	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	< 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
Bromodichloromethane	< 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
2-Butanone	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec- Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	< 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
Carbon Tetrachloride									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	< 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
Chloroethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	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
Dibromochloromethane	< 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
1,2-Dichlorobenzene	< 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
1,3-Dichlorobenzene	< 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
1,4-Dichlorobenzene	< 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
1,1-Dichloroethane	< 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
1,2-Dichloroethane	< 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
1,1-Dichloroethene	< 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
cis-1,2-Dichloroethene	< 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
trans-1,2-Dichloroethene	< 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
Total 1,2-Dichloroethene	< 10	10.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethylbenzene	< 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
Isopropylbenzene	< 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
p- Isopropyl toluene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	< 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
Naphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	< 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
Tetrachloroethene	< 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
Toluene	< 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
1,1,1-Trichloroethane	< 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
1,1,2-Trichloroethane	< 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
Trichloroethene	< 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
Trichlorofluoromethane	< 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
1,2,4-Trimethylbenzene	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
Vinyl Chloride	< 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
m&p-Xylene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0
o-Xylene	< 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
Total Xylene	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10
Semi-Volatile Organics, Method 8270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
2,4-Dimethylphenol															
Bis(2-Ethylhexyl)phthalate															
2-Methylnaphthalene															
2-Methylphenol (o-cresol)															
4-Methylphenol (m&p-cres															
Cresol (o,m,p)															
Naphthalene															
Metals, Method 6010B/7470A					na	na	na	na	na	na	na	na	na	na	na
Barium	21.6	48.5	< 20	40.1											
Cadmium	< 5	< 5	< 5	< 5											
Chromium	< 10	17.1	< 10	< 10											
Copper	< 10	< 10	< 10	22.5											
Lead	< 10	< 10	< 10	< 10											
Manganese	na	na	na	na											
Nickel	< 20	< 20	< 20	< 20											
Zinc	< 20	< 20	< 20	< 20											

Parameter	MW-4 31 to 41 ft bg May-88	Oct-88	Jun-95	Mar-96	Nov-97	Dec-98	Sep-99	Feb-00	Apr-01
Volatile Organics, Method 8260									
Acetone	na	na	8.0 E	< 10,000	29	na	< 100	< 100	< 5
Benzene	< 5	< 200	1.3	< 200	0.5	< 5	< 5	< 5	< 5
Bromodichloromethane	nr	nr	nr	< 1,000	< 0.19	< 5	< 5	< 5	< 5
2-Butanone	na	na	< 12.0	< 10,000	< 10	na	< 100	< 100	< 10
n-Butylbenzene	na	na	na	< 1,000	na	< 5	11	< 5	na
sec- Butylbenzene	na	na	na	< 1,000	na	< 5	< 5	< 5	na
Carbon disulfide	na	na	na	< 1,000	< 5	na	< 5	< 5	< 5
Carbon Tetrachloride									
Chlorobenzene	< 5	< 200	9.9	< 1,000	28	12	47	39	95
Chloroethane	< 10	< 400	< 1.3	< 500	< 0.37	< 10	< 10	< 10	< 5
Chloroform	26	53 J	8.6	< 200	0.5	< 5	< 5	< 5	< 5
Dibromochloromethane	< 5	< 200	< 0.6	< 1,000	< 5	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	< 5	< 200	na	1,200	NAV	500	1050	886	na
1,3-Dichlorobenzene	< 5	< 200	na	< 1,000	NAV	147	359	175	na
1,4-Dichlorobenzene	< 5	< 200	na	< 1,000	NAV	94	149	136	na
1,1-Dichloroethane	51	< 200	12	< 200	4.9	< 5	5	< 5	< 5
1,2-Dichloroethane	25	< 200	0.7 E	< 200	0.26	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 200	22	< 2	9	4 J	17	12	17
cis-1,2-Dichloroethene	na	na	na	40,000	na	10,100	20,700	35,300	67,000
trans-1,2-Dichloroethene	na	14,000	na	300	190	73	372	234	< 5
Total 1,2-Dichloroethene	na	14000	56,000	40,300	190	10,173	21,072	35,534	67,005
Ethylbenzene	110	< 200	150	< 200	56	9	27	23	7.1
Isopropylbenzene	na	na	na	< 1,000	na	5	10	13	na
p- Isopropyl toluene	na	na	na	< 1,000	na	< 5	< 5	< 5	na
Methylene chloride	110	360	< 2.8	< 500	< 5	< 5	< 5	< 5	< 5
Naphthalene	na	na	na	< 1,000	NAV	< 5	< 5	< 5	na
Styrene	na	na	< 0.4	< 500	< 0.13	< 5	< 5	< 5	< 5
Tetrachloroethene	200	590	3,100	20,000	690	36	994	228	3000
Toluene	32	< 200	110	< 200	14	5	20	16	22
1,1,1-Trichloroethane	< 5	< 200	< 0.4	< 200	1.1	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 200	< 0.9	< 200	17	< 5	< 5	< 5	< 5
Trichloroethene	< 5	14,000	20,000	26,000	1,300	45	1,360	218	3,600
Trichlorofluoromethane	< 200	< 200	na	< 1,000	< 0.22	< 5	< 5	< 5	na
1,2,4-Trimethylbenzene	na	na	na	< 1,000	na	23	43	45	na
1,3,5-Trimethylbenzene	na	na	na	< 1,000	na	< 5	< 5	< 5	na
Vinyl Chloride	< 10	< 400	2.3 E	< 1,000	8.5	3	10	5	< 5
m&p-Xylene	na	na	na	< 500	na	< 5	7	6	na
o-Xylene	na	na	na	< 500	na	27	71	63	na
Total Xylene	na	na	520	< 500	110	27	78	69	71
Semi-Volatile Organics, Method 8270	na	na	na						na
1,2-Dichlorobenzene				1,100	370	291	NASV	NASV	
1,3-Dichlorobenzene				380	100	148	NASV	NASV	
1,4-Dichlorobenzene				300	74	60	NASV	NASV	
2,4-Dimethylphenol				< 100	< 10	< 10	< 10	< 10	
Bis(2-Ethylhexyl)phthalate				< 100	< 10	< 10	< 10	< 10	
2-Methylnaphthalene				< 100	< 10	< 10	< 10	< 10	
2-Methylphenol (o-cresol)				< 100	na	< 10	< 10	< 10	
4-Methylphenol (m&p-cres				< 100	na	< 10	< 10	< 10	
Cresol (o,m,p)				< 200	< 10	< 20	< 20	< 20	
Naphthalene				< 100	11	< 10	< 10	< 10	
Metals, Method 6010B/7470A	na	na							
Barium			< 2	40	< 200	na	164	286	61.2
Cadmium			< 4	na	na	na	< 5	27	< 10
Chromium			< 3	< 10	na	na	16	33	< 10
Copper			na	< 20	< 25	na	56	354	< 10
Lead			< 19	< 25	na	na	24	62	< 10
Manganese			na	na	na	na	na	na	na
Nickel			na	320	210	na	188	269	412
Zinc			na	40	60	na	92	260	27.7

[a] ''nr' = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 establshed as parameter not regulated under HSRA.

(shaded) = Exceeds Type 1, Type 2, Type 3, and Type 4 RRSs.

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-4 31 to 41 ft bg May-02	MW-4 Sep-03	MW-4a 36 to 46 ft bg May-04	May-05	Jul-06	Apr-07	May-07	Oct-07	Apr-08	Oct-09	Apr-10	Oct-10	Apr-11	ct 11 - Apr 1	Oct-13
Volatile Organics, Method 8260				ns	ns						ns	ns	ns				ns	
Acetone	4,000	nc[g]	nc			<20	<50	<50	<50	<50				<50	<50	<50		<50
Benzene	5	4.4	8.7			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
Bromodichloromethane	100	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
2-Butanone	2,000	nc	nc			<10	<50	<50	<50	<50				<50	<50	<50		<50
n-Butylbenzene	5	626	4,088			na	na	na	na	na				na	na	na		na
sec-Butylbenzene	5	626	4,088			na	na	na	na	na				na	na	na		na
Carbon disulfide	4,000	nc	nc			<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
Chlorobenzene	100	27	136			<5	18	13	12	<5				7.2	8.6	7.2		5.6
Chloroethane	10	nc	nc			<10	<10	<10	<10	<10				<10	<10	<10		<10
Chloroform	100	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
Dibromochloromethane	100	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
1,2-Dichlorobenzene	600	nc	nc			61	630	320	340	70				420	350	150		350
1,3-Dichlorobenzene	600	nc	nc			16	220	120	120	22				150	130	51		160
1,4-Dichlorobenzene	75	35	73			9.4	150	74	67	12				86	76	28		81
1,1-Dichloroethane	4,000	nc	nc			<5	<5	<5	<5	<5				<5.0	6.4	<5.0		6.8
1,2-Dichloroethane	5	1.6	2.9			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
1,1-Dichloroethene	7	103	524			<5	<5	5.5	<5	<5				<5.0	<5.0	<5.0		<5.0
cis-1,2-Dichloroethene	70	156	1,020			10,000	16,000	20,000	97,000	9,200				8,500	8,700	12,000		7,400
trans-1,2-Dichloroethene	100	32	161			44	120	100	130	69				48	87	43		48
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]			10,044	16,120	20,100	97,130	9,269				8,548	8,787	12,043		7,448
Ethylbenzene	700	nc	nc			<5	8.1	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
Isopropylbenzene	5	207	nc			<5	14	9.8	9	<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
Methylene chloride	5	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
Naphthalene	20	nc	nc			na	na	na	na	na				na	na	na		na
Styrene	100	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
Tetrachloroethene	5	1.3	3.9			5.3	24	5.4	21	27				20	23	11		18
Toluene	1,000	nc	nc			<5	<5	<5	<5	<5				<5.0	<5.0	<5.0		<5.0
1,1,1-Trichloroethane	200	nc	nc			<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				<5.0	<5.0	<5.0		<5.0
Trichloroethene	5	18	35			12	29	13	44	65				36	39	25		37
Trichlorofluoromethane	2,000	nc	nc			<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
1,3,5-Trimethylbenzene						na	na					na	na	na	na	na		na
Vinyl Chloride	2	1.1	3.3			5.4	6.1	9.4	7	<2				<2.0	6.4	<2.0		3.6
m&p-Xylene	nc	nc	nc			<10	<10	<10	<10	<10				<10	<10	<10		<5.0
o-Xylene	nc	nc	nc			<5	31	5.5	5.4	<5				<5.0	<5.0	<5.0		<5.0
Total Xylene	10,000	nc	nc			<15	31	5.5	5.4	<15				<15	<15	<15		<10
Semi-Volatile Organics, Method 8270				ns	ns	na	na	na	na	na	ns	ns	ns	na	na	na	ns	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-cres	10	nc	nc															
Cresol (o,m,p)	10	nc	nc															
Naphthalene	20	nc	nc															
Metals, Method 6010B/7470A				na	ns						ns	ns	ns				ns	na
Barium	2,000	nc	nc			41.1	na	28.1	<20	245				0.0	0.0	0.0		
Cadmium	5	7.8	51			<5	na	<5	86.6	52.7				0.0	0.0	0.0		
Chromium	100	47	310			<10	<10	<10	<10	60.5				0.0	0.0	0.0		
Copper	1,300	630	4,090			<10	na	<10	1,920	1,640				0.0	0.0	0.0		
Lead	15	15	15			<10	<10	<10	<10	46.2				na	na	na		
Manganese	ne	ne	ne			na	na	na	na	na				58,700	23,800	21,400		
Nickel	100	310	2,040			522	na	467	501	472				na	na	na		
Zinc	2,000	4,700	nc			154	na	<20	1,920	1,360				na	na	na		

Parameter	IW-4 44 to 49 ft bg Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13
Volatile Organics, Method 8260					ns	ns	ns				ns	
Acetone	560	130	<500	<50				<5,000	<50	<50		<50
Benzene	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Bromodichloromethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
2-Butanone	66.0	<50	<500	<50				<5,000	<50	<50		<50
n-Butylbenzene				na				na	na	na		na
sec-Butylbenzene				na				na	na	na		na
Carbon disulfide	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.1		<5.0
Carbon Tetrachloride								<500	<5.0	<5.0		<5.0
Chlorobenzene	9.1	6.8	<50	10				<500	8.2	<5		5.0
Chloroethane	<10	<10	<100	<10				<1,000	<10	<10		<10
Chloroform	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Dibromochloromethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
1,2-Dichlorobenzene	330	270	210	310				<500	310	210		240
1,3-Dichlorobenzene	150	120	86	190				<500	160	85		110
1,4-Dichlorobenzene	74.0	65.0	54.0	90				<500	90	54		67
1,1-Dichloroethane	<5.0	<5.0	<50	<5.0				<500	<5.0	12		7.1
1,2-Dichloroethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
1,1-Dichloroethene	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
cis-1,2-Dichloroethene	<5.0	16,000	12,000	13,000				8,200	9,800	8,400		7,400
trans-1,2-Dichloroethene	<5.0	130	96.0	110				<500	61	46		47
Total 1,2-Dichloroethene	<10	16,130	12,096	13,110				8,700	9,861	8,446		7,447
Ethylbenzene	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Isopropylbenzene	<5.0	16.0	<50	<5.0				<500	<5.0	6.4		<5.0
p-Isopropyl toluene								na	na	na		na
Methylene chloride	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Naphthalene	na	na	na	na				na	na	na		na
Styrene	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Tetrachloroethene	54	110	200	820				<500	410	93		52
Toluene	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
1,1,1-Trichloroethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
1,1,2-Trichloroethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
Trichloroethene	<5.0	150.0	420	1,600				<500	420	110		62
Trichlorofluoromethane	<5.0	<5.0	<50	<5.0				<500	<5.0	<5.0		<5.0
1,2,4-Trimethylbenzene										na		na
1,3,5-Trimethylbenzene										na		na
Vinyl Chloride	<2.0	4.2	<50	<2.0				<200	<2.0	3.4		4.7
m&p-Xylene	<10	<10	<100	<10				<500	<10	<10		<5.0
o-Xylene	<5.0	9.3	<50	<5.0				<500	<5.0	<5.0		<5.0
Total Xylene	<15	9.3	<150	<15				<1,000	<15	<15		<10
Semi-Volatile Organics, Method 8270	na	na	na	na	ns	ns	ns	na	na	na	ns	na
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
2,4-Dimethylphenol												
Bis(2-Ethylhexyl)phthalate												
2-Methylnaphthalene												
2-Methylphenol (o-cresol)												
4-Methylphenol (m&p-cres												
Cresol (o,m,p)												
Naphthalene												
Metals, Method 6010B/7470A	na	na	na		ns	ns	ns				ns	
Barium				na				na	na	na		na
Cadmium				<5				na	na	na		na
Chromium				na				na	na	na		na
Copper				na				na	na	na		na
Lead				<10				na	na	na		na
Manganese								11,900	na	95,700		26,100
Nickel				na				na	na	na		na
Zinc				77.3				na	na	na		na

Parameter	MW-4b 96 to 101 ft bg May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	MW-4b 96 to 101 ft bg Apr-10	Oct-10	Apr-11	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13
Volatile Organics, Method 8260																
Acetone	<20	<50	<50	<20	<50	58.0	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	<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
Bromodichloromethane	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
2-Butanone	100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
n-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	<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
Carbon Tetrachloride									<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene	<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
Chloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform	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
Dibromochloromethane	<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
1,2-Dichlorobenzene	<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
1,3-Dichlorobenzene	<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
1,4-Dichlorobenzene	<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
1,1-Dichloroethane	<5	<5	11	12	14	9	12	8.9	13	9.2	7.7	5.6	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane	<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
1,1-Dichloroethene	<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
cis-1,2-Dichloroethene	7.5	190	660	380	<5.0	120	<5.0	<5.0	<5.0	15	62	37	7	25	15	<5.0
trans-1,2-Dichloroethene	<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
Total 1,2-Dichloroethene	12.5	195	665	385	<10	125	<10	<10	<10	20	67	42	12	30	20	<10
Ethylbenzene	<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
Isopropylbenzene	<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
p-Isopropyl toluene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	<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
Naphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	<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
Tetrachloroethene	<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
Toluene	<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
1,1,1-Trichloroethane	<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
1,1,2-Trichloroethane	<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
Trichloroethene	<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
Trichlorofluoromethane	<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
1,2,4-Trimethylbenzene	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
Vinyl Chloride	<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
m&p-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<5.0
o-Xylene	<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
Total Xylene	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<10	<10
Semi-Volatile Organics, Method 8270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene																
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
2,4-Dimethylphenol																
Bis(2-Ethylhexyl)phthalate																
2-Methylnaphthalene																
2-Methylphenol (o-cresol)																
4-Methylphenol (m&p-cres																
Cresol (o,m,p)																
Naphthalene																
Metals, Method 6010B/7470A					na	na	na	na	na	na	na	na	na	na	na	na
Barium	26.3	20.1	31	23.7												
Cadmium	<5	<5	<5	<5												
Chromium	10.1	21.8	<10	<10												
Copper	<10	<10	34.6	<10												
Lead	<10	<10	<10	<10												
Manganese	na	na	na	na												
Nickel	<20	205	53.2	584												
Zinc	<20	<20	88.8	28.8												

[a] ''nr' = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 establshed as parameter not regulated under HSRA.

(highlighted) = Exceeds Type 1, Type 2, Type 3, and Type 4 RRSs.

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
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	May-04	Jul-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11
Volatile Organics, Method 8260																																																
Acetone	4,000	nc[c]	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	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50
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	7.4	< 5	6.2	< 5	< 5.0	< 5.0	< 5.0	< 5.0	5.5	12.0	5.6
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50
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	na	na	na	na	na	na	na	na	na	na	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	na	na	na	na	na	na	na	na	na	na	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	< 5	< 5	< 5	< 5	< 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
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	17	22	52	< 5	< 5.0	24.0	< 5.0	15	49	86	36
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 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	< 5	< 5	< 5	< 5	6.0	< 5.0	< 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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	20	8.3	9.7	< 5	< 5.0	7.3	< 5.0	< 5.0	5.8	6.9	< 5.0
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	5	< 5	8.5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	9.9	< 5.0
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	7	5.7	12	< 5	< 5.0	6.1	< 5.0	< 5.0	8.3	14.0	6.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	82	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	6.2	< 5.0	6.2
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	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	87	< 10	< 10	< 10	< 10	< 10	< 10	< 10	11.2	< 10	11.2
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	31	25	50	< 5	< 5.0	24.0	< 5.0	7.2	32	90	18
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	< 5	< 5	7.3	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
***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	na	na	na	na	na	na	na	na	na	na	na
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	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	na	na	na	na	na	na	na	na	na	na	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	< 200	< 0.4	< 25	< 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
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.1	< 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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
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	na					na	na	na	na	na	na	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	< 5	< 5	< 5	na	5	na	na					na	na	na	na	na	na	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	20	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	4.1	< 2.0	< 2.0
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	< 5.0	na	na	46	na	209	252	164	na	229	56	130	80	190	< 10	< 10	16.0	< 10	< 10	84	310	25
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	45	27	60	< 5	< 5.0	8.1	< 5.0	6.1	24	100	15
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	<10	na	580	120	520	280	327	221	350	298	76	175	107	250	< 15	< 15	24.1	< 15	6.1	108	410	40
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																					
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-cres	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																				
Barium	2,000	nc	nc		< 2	< 10	< 200	na	25	< 20	39.4	< 20	< 20	< 20	< 20	< 20	< 20											< 2	70	< 200		na	158	147	62.4	51	53.7	67.6	60.0	44.4	51.9								
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	7	< 5	< 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	17.4	< 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	25.2	< 10	< 10	< 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	< 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	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	61.1	< 20	65.1	< 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	138	< 20	< 20	< 20								

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

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

[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

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

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-6 25 to 45 ft bg Oct-11	Apr-12	Oct-12	Apr-13	Oct-13
Volatile Organics, Method 8260								
Acetone	4,000	nc[g]	nc	< 50	< 50	< 50	< 50	< 50
Benzene	5	4.4	8.7	7.6	9.2	7.5	< 5.0	< 5.0
Bromodichloromethane	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	5	626	4,088	na	na	na	na	na
sec-Butylbenzene	5	626	4,088	na	na	na	na	na
Carbon disulfide	4,000	nc	nc	< 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
Chlorobenzene	100	27	136	67	75.0	84.0	20	6
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10
Chloroform	100	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	100	nc	nc	< 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
1,3-Dichlorobenzene	600	nc	nc	6.4	8.6	9.6	< 5.0	< 5.0
1,4-Dichlorobenzene	75	35	73	10	11	13	< 5.0	< 5.0
1,1-Dichloroethane	4,000	nc	nc	< 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
1,1-Dichloroethene	7	103	524	< 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
trans-1,2-Dichloroethene	100	32	161	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	< 10	< 10	< 10	< 10	< 10
Ethylbenzene	700	nc	nc	46	59	57	5.2	< 5.0
Isopropylbenzene	5	207	nc	< 5.0	< 5.0	5.8	< 5.0	< 5.0
p-Isopropyl toluene	5	200	1,010	na	na	na	na	na
Methylene chloride	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	20	nc	nc	na	na	na	na	na
Styrene	100	nc	nc	< 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
Toluene	1,000	nc	nc	< 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
1,1,2-Trichloroethane	5	nc	nc	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5	18	35	< 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
1,2,4-Trimethylbenzene				na	na	na	na	na
1,3,5-Trimethylbenzene				na	na	na	na	na
Vinyl Chloride	2	1.1	3.3	< 2.0	< 2.0	<2.0	<2.0	< 2.0
m&p-Xylene	nc	nc	nc	190	170	120 J	< 5.0	< 5.0
o-Xylene	nc	nc	nc	60	63	51	< 5.0	< 5.0
Total Xylene	10,000	nc	nc	250	233	171	<10	< 10
Semi-Volatile Organics, Method 8270				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-cres	10	nc	nc					
Cresol (o,m,p)	10	nc	nc					
Naphthalene	20	nc	nc					
Metals, Method 6010B/7470A				na	na	na	na	na
Barium	2,000	nc	nc					
Cadmium	5	7.8	51					
Chromium	100	47	310					
Copper	1,300	630	4,090					
Lead	15	15	15					
Manganese	ne	ne	ne					
Nickel	100	310	2,040					
Zinc	2,000	4,700	nc					

Parameter	MW-7 35 to 55 ft bg 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	na	< 2.6	< 100	< 10	na	< 100	< 100	< 5	< 100	na	< 20
Benzene	< 5	< 0.3	< 2	0.27	< 5	< 5	< 5	< 5	< 5		< 5
Bromodichloromethane	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5		< 5
2-Butanone	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10	< 100		< 10
n-Butylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
sec-Butylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Carbon disulfide	na	na	< 10	< 5	na	< 5	< 5	< 5	< 5		< 5
Carbon Tetrachloride											
Chlorobenzene	< 5	< 0.60	< 10	< 0.25	< 5	< 5	< 5	< 5	< 5		< 5
Chloroethane	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10		< 10
Chloroform	1.3 J	< 0.7	< 2	0.60	< 5	< 5	< 5	< 5	10		40
Dibromochloromethane	< 5	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5		< 5
1,2-Dichlorobenzene	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
1,3-Dichlorobenzene	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
1,4-Dichlorobenzene	< 5	na	< 10	NAV	< 5	< 5	< 5	na	< 5		< 5
1,1-Dichloroethane	< 5	< 0.8	< 2	< 0.15	< 5	< 5	< 5	< 5	< 5		< 5
1,2-Dichloroethane	< 5	< 0.5	< 2	< 0.12	< 5	< 5	< 5	< 5	< 5		< 5
1,1-Dichloroethene	< 5	< 0.9	< 2	< 0.48	< 5	< 5	< 5	< 5	< 5		< 5
cis-1,2-Dichloroethene	na	na	5	na	< 5	< 5	< 5	na	24		< 5
trans-1,2-Dichloroethene	< 5	na	< 2	< 0.23	< 5	< 5	< 5	na	< 5		< 5
Total 1,2-Dichloroethene	< 5	4.5 E	7	< 0.23	< 10	< 10	< 10	< 10	29		< 10
Ethylbenzene	< 5	< 1.0	< 2	< 0.34	< 5	< 5	< 5	< 5	< 5		< 5
Isopropylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		< 5
p-Isopropyl toluene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Methylene chloride	< 7.1	6.9 E	< 5	< 5	< 5	< 5	< 5	< 5	< 5		< 5
Naphthalene	na	na	< 10	NAV	< 5	< 5	< 5	na	< 5		na
Styrene	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5	< 5		< 5
Tetrachloroethene	5.5	1.7 E	< 2	0.51	< 5	< 5	< 5	< 5	< 5		< 5
Toluene	< 5	< 0.9	< 2	0.5	< 5	< 5	< 5	< 5	< 5		< 5
1,1,1-Trichloroethane	< 5	< 0.4	< 2	< 0.25	< 5	< 5	< 5	< 5	< 5		< 5
1,1,2-Trichloroethane	< 5	< 0.9	< 2	< 0.37	< 5	< 5	< 5	< 5	< 5		< 5
Trichloroethene	< 5	5.1	< 2	0.62	< 5	< 5	< 5	< 5	< 5		< 5
Trichlorofluoromethane	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na	< 5		< 5
1,2,4-Trimethylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
1,3,5-Trimethylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5		na
Vinyl Chloride	< 10	< 1.7	< 10	< 0.61	< 2	< 2	< 2	< 5	< 2		< 5
m&p-Xylene	na	na	< 5	na	< 5	< 5	< 5	na	< 10		< 10
o-Xylene	na	na	< 5	na	< 5	< 5	< 5	na	< 5		< 5
Total Xylene	na	0.8 E	< 5	0.76	< 5	< 5	< 5	< 5	< 15		< 15
Semi-Volatile Organics, Method 8270	na	na						na	na	na	na
1,2-Dichlorobenzene			< 10	< 10	< 10	NASV	NASV				
1,3-Dichlorobenzene			< 10	< 10	< 10	NASV	NASV				
1,4-Dichlorobenzene			< 10	< 10	< 10	NASV	NASV				
2,4-Dimethylphenol			< 10	< 10	< 10	< 10	< 10				
Bis(2-Ethylhexyl)phthalate			20	< 10	< 10	< 10	< 10				
2-Methylnaphthalene			< 10	< 10	< 10	< 10	< 10				
2-Methylphenol (o-cresol)			< 10	na	< 10	< 10	< 10				
4-Methylphenol (m&p-cres			< 10	na	< 10	< 10	< 10				
Cresol (o,m,p)			< 20	< 10	< 20	< 20	< 20				
Naphthalene			< 10	< 10	< 10	< 10	< 10				
Metals, Method 6010B/7470A	na				na						
Barium		710	60	< 200		125	74	34.1	147	819	66.8
Cadmium		< 4	na	na		< 5	< 5	< 10	< 5	< 5	< 5
Chromium		30	< 10	na		< 10	< 10	< 10	< 10	17.6	< 10
Copper		na	< 20	< 25		< 20	< 20	< 10	< 20	23.6	< 10
Lead		80	< 25	na		11	< 10	< 10	10	46.2	< 10
Manganese		na	na	na		na	na	na	na	na	na
Nickel		na	< 20	< 40		< 20	< 20	< 20	< 20	< 20	< 20
Zinc		na	30	30		37	< 20	< 20	29	181	< 20

Parameter	MW-7R 45 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
Volatile Organics, Method 8260															
Acetone	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	< 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
Bromodichloromethane	< 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
2-Butanone	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
n-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon disulfide	< 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
Carbon Tetrachloride									< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	< 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
Chloroethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	45	27	38	23	29	40	25	21	19	19	20	19	17	22	12
Dibromochloromethane	< 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
1,2-Dichlorobenzene	< 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
1,3-Dichlorobenzene	< 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
1,4-Dichlorobenzene	< 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
1,1-Dichloroethane	< 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
1,2-Dichloroethane	< 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
1,1-Dichloroethene	< 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
cis-1,2-Dichloroethene	< 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
trans-1,2-Dichloroethene	< 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
Total 1,2-Dichloroethene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ethylbenzene	< 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
Isopropylbenzene	< 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
p-Isopropyl toluene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene chloride	< 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
Naphthalene	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	< 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
Tetrachloroethene	< 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
Toluene	< 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
1,1,1-Trichloroethane	< 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
1,1,2-Trichloroethane	< 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
Trichloroethene	< 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
Trichlorofluoromethane	< 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
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	< 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
m&p-Xylene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0
o-Xylene	< 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
Total Xylene	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10
Semi-Volatile Organics, Method 8270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
2,4-Dimethylphenol															
Bis(2-Ethylhexyl)phthalate															
2-Methylnaphthalene															
2-Methylphenol (o-cresol)															
4-Methylphenol (m&p-cres															
Cresol (o,m,p)															
Naphthalene															
Metals, Method 6010B/7470A					na	na	na	na	na	na	na	na	na	na	na
Barium	82.7	86.3	48.4	85.7											
Cadmium	< 5	< 5	< 5	< 5											
Chromium	< 10	12.7	12.4	23.3											
Copper	< 10	< 10	< 10	12.3											
Lead	< 10	< 10	< 10	< 10											
Manganese	na	na	na	na											
Nickel	< 20	< 20	< 20	< 20											
Zinc	20.4	< 20	< 20	41.2											

Parameter	MW-8 35 to 55 ft bg 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
Volatile Organics, Method 8260															
Acetone	na	22	< 100	< 10	na	< 100	< 100	< 5	< 100	< 20	< 20	< 50	< 50	250	93
Benzene	< 5	1.7	< 2	1.4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	nr	nr	< 10	< 0.19	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	na	< 12.0	< 100	< 10	na	< 100	< 100	< 10	< 100	< 10	< 10	< 5	< 50	< 50	< 50
n-Butylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na
sec-Butylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na
Carbon disulfide	na	na	< 10	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon Tetrachloride															
Chlorobenzene	< 5	2.5	< 10	9.9	7	11	16	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 10	< 1.3	< 5	< 0.37	< 10	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chloroform	3.1 J	9.8	< 2	1	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	5.1	< 5
Dibromochloromethane	< 5	< 0.6	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	41	< 5	< 5
1,2-Dichlorobenzene	< 5	na	180	NAV	280	339	374	na	17	170	160	75	110	130	66
1,3-Dichlorobenzene	< 5	na	120	NAV	81	92	129	na	< 5	58	47	26	34	36	19
1,4-Dichlorobenzene	< 5	na	62	NAV	50	60	79	na	< 5	37	30	16	21	24	12
1,1-Dichloroethane	< 5	92	12	120	106	117	36	< 5	46	55	43	20	44	59	39
1,2-Dichloroethane	< 5	3.9	< 2	2.9	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	26	12	17	16	16	8	< 5	< 5	6.1	< 5	< 5	6.3	< 5	< 5
cis-1,2-Dichloroethene	na	na	14,000	na	13,300	18,700	11,200	na	7,020	9,100	8,100	3,400	9,300	< 5	< 5
trans-1,2-Dichloroethene	< 5	na	200	170	111	154	92	na	23	90	59	27	60	< 5	< 5
Total 1,2-Dichloroethene	< 5	21,000	14200	170	13411	18854	11,292	1,900	7043	9,190	8,159	3,427	9360	< 10	< 10
Ethylbenzene	< 5	2.6 E	< 2	1.3	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Isopropylbenzene	na	na	< 10	na	8	10	5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5
p-Isopropyl toluene	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na
Methylene chloride	11 B	7.5 E	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	na	na	< 10	NAV	< 5	< 5	< 5	na	< 5	na	na	na	na	na	na
Styrene	na	< 0.4	< 5	< 0.13	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	790	1,800	180	112	200	616	280	6	170	81	100	60	< 5	< 5
Toluene	< 5	3.5	< 2	1.8	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,1-Trichloroethane	< 5	3.3	7	1.4	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	2.8 E	< 2	1.3	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	4,600	4,500	880	362	481	1,210	240	28	310	360	200	130	< 5	< 5
Trichlorofluoromethane	< 5	na	< 10	< 0.22	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trimethylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na			
1,3,5-Trimethylbenzene	na	na	< 10	na	< 5	< 5	< 5	na	< 5	na	na	na			
Vinyl Chloride	< 10	17	< 10	8	7	13	6	< 5	< 2	< 5	< 5	< 2	7.1	< 2	< 2
m&p-Xylene	na	na	< 5	na	< 5	< 5	< 5	na	< 10	< 5	< 10	< 10	< 10	< 10	< 10
o-Xylene	na	na	< 5	na	< 5	< 5	< 5	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total Xylene	na	5.2	< 5	2.8	< 5	< 5	< 5	< 5	< 15	< 5	< 15	< 15	< 15	< 15	< 15
Semi-Volatile Organics, Method 8270	na	na						na	na	na	na	na	na	na	na
1,2-Dichlorobenzene			140	150	171	NASV	NASV								
1,3-Dichlorobenzene			< 100	49	80	NASV	NASV								
1,4-Dichlorobenzene			< 100	35	59	NASV	NASV								
2,4-Dimethylphenol			< 100	< 10	12	< 10	< 10								
Bis(2-Ethylhexyl)phthalate			< 100	< 10	< 10	< 10	< 10								
2-Methylnaphthalene			< 100	< 10	< 10	< 10	< 10								
2-Methylphenol (o-cresol)			< 100	na	< 10	< 10	< 10								
4-Methylphenol (m&p-cres			< 100	na	< 10	< 10	< 10								
Cresol (o,m,p)			< 200	< 10	< 20	< 20	< 20								
Naphthalene			< 10	< 10	< 10	< 10	< 10								
Metals, Method 6010B/7470A	na														
Barium		230	70	< 200	na	75	165	36.3	521	26.4	40.3	na	63.8	< 20	46
Cadmium		< 4	na	na	na	< 5	< 5	< 10	69	< 5	< 5	na	< 5	7.6	11.8
Chromium		40	< 10	na	na	< 10	29	< 10	154	< 10	44.0	< 10	< 10	165	83.2
Copper		na	< 20	40	na	< 20	79	26.1	705	19.6	32.4	na	46.8	2,800	1970
Lead		< 19	< 25	na	na	13	25	11.7	107	23.5	21.8	16.8	18.4	20.4	< 10
Manganese		na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nickel		na	210	880	na	879	679	226	989	1,140	1,380	na	1,070	482	301
Zinc		na	60	200	na	119	314	124	1,130	265	312	na	249	91	85.4

[a] ''nr' = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 establshed as parameter not regulated under HSRA.

(shaded) = Exceeds Type 1, Type 2, Type 3, and Type 4 RRSs.

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
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											MW-10 24 to 34 ft bg					
				Oct-07	Apr-08	Oct-08	Apr-09	Oct-09	Apr-10	Oct-10	Apr-11	Oct-11	Nov-11	Apr-12	Oct-12	Apr-13	Oct-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-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 - Apr 13	Dec-01	May-02	Sep-03	May-04	Jul-06	Apr-07
Volatile Organics, Method 8260																											ns												ns			na			
Acetone	4,000	nc[c]	nc	< 50	< 50	260 J	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50		< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50		< 100	< 100		< 20	< 20	< 50
Benzene	5	4.4	8.7	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Bromodichloromethane	100	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	1,100 E	< 5.0	< 50	< 50	< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50		< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50		< 100	< 100		< 10	< 10	< 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		< 5	7	na	na	na	na	na	na	na	na	na		< 5	< 5		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		< 5	< 5	na	na	na	na	na	na	na	na	na		< 5	< 5		na	na	na
Carbon disulfide	4,000	nc	nc	< 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	33	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	13		< 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																																	
Chlorobenzene	100	27	136	< 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	473	218	380	490	400	270	220	180	370	110	18		203	455	300	300	270	480	120	100	250	220	250		< 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	< 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	< 5.0	< 5.0	< 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		17	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Dibromochloromethane	100	nc	nc	< 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	< 5	26	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,2-Dichlorobenzene	600	nc	nc	68	76	16 J	48	42	20	54	71.0	68	49	78	54	77	23	35	58	24	73	60	74	20	15	46	18	< 5.0		10	20	26	56	41	18	7	5.8	12.0	8.5	7.1		< 5	< 5		< 5	< 5	< 5
1,3-Dichlorobenzene	600	nc	nc	10	12	< 5.0	6.6	9.9	5.6	14.0	17.0	7.5	5.3	9.1	8.3	10	7	33	26	37	44	42	30	33	18	55	18	< 5.0		13	33	17	18	14	31	11	8	17	18.0	19		< 5	< 5		< 5	< 5	< 5
1,4-Dichlorobenzene	75	35	73	9.5	10	< 5.0	6.7	7.2	5.6	11.0	14.0	9.1	6.8	9.6	9.3	9.9	5.6	49	38	56	64	57	43	47	25	76	27	< 5.0		23	54	28	35	24	50	18	13	28	30.0	28		< 5	< 5		< 5	< 5	< 5
1,1-Dichloroethane	4,000	nc	nc	38	73	47	48	32	14	37	44.0	53	41	83	43	89	22	< 5	< 5	< 5	< 20	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,2-Dichloroethane	5	1.6	2.9	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,1-Dichloroethene	7	103	524	< 5	7.5	5.3	6.1	< 5.0	< 5.0	< 5.0	< 5.0	6.8	< 5.0	9.3	<5.0	<5.0	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
cis-1,2-Dichloroethene	70	156	1,020	4,000	4,800	6,300	8,300	4,800	1,500	4,500	8,000	18,000 E	6,100	11,000	5,000	13,000	2,400	51	52	130	38	34	23	75	17	15	7.8	5.5		222	334	1,000	1,500	1,100	200	56	10	13	16	< 5		< 5	< 5		< 5	< 5	< 5
trans-1,2-Dichloroethene	100	32	161	33	32	38	50	36	12	39	46	42	32	63	27	68	15	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	5.8	12	10	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Total 1,2-Dichloroethene	105[b]	192[b]	1,160[b]	4,033	4,832	6,338	8,350	4,836	1,512	4,539	8,046	18,042	6,132	11,063	5,027	13,068	2,415	56	57	135	43	39	28	80	22	20	12.8	10.5		227	339	1005.8	1,512	1,110	205	61	15	18	21	< 10		< 10	< 10		< 10	< 10	< 10
Ethylbenzene	700	nc	nc	< 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	< 5	10	6	< 5	5.5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		37	64	85	< 5	< 5	31	35	14	30	20.0	22		< 5	< 5		< 5	< 5	< 5
Isopropylbenzene	5	207	nc	< 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	< 5	< 5	< 5	< 5	6.1	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	7	6.5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
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		< 5	< 5	na	na	na	na	na	na	na	na	na		< 5	< 5		na	na	na
Methylene chloride	5	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
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		14	19	na	na	na	na	na	na	na	na	na		< 5	< 5		na	na	na
Styrene	100	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Tetrachloroethene	5	1.3	3.9	10	11	< 5.0	6.7	18	20	27	17	12	9	8.3	6.9	8.5	18.0	28	68	32	28	14	26	< 5	24	15.0	57.0	90		17	9	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	7
Toluene	1,000	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	5	9	< 5	< 5	6.2	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,1,1-Trichloroethane	200	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,1,2-Trichloroethane	5	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Trichloroethene	5	18	35	22	20	14	18	27	21	28	20	23	21	19	12	24	17	5	39	7.2	10	7.8	12	9	< 5.0	11.0	11.0	5.2		7	7	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	27	12		< 5	< 5		< 5	< 5	< 5
Trichlorofluoromethane	2,000	nc	nc	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
1,2,4-Trimethylbenzene					na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na		13	26	na	na				na	na	na	na		< 5	8		na		
1,3,5-Trimethylbenzene					na	na	na	na	na	na	na	na	na	na	na	na	na	< 5	< 5	na	na				na	na	na	na		< 5	8	na	na				na	na	na	na		< 5	< 5		na		
Vinyl Chloride	2	1.1	3.3	4.1	5.9	3.8	6.0	3.5	< 2.0	3.5	3.3	5.9	3.8	12	2.5	11	2	< 2	< 2	< 5	< 5	< 5	< 2	< 2	3.7	< 2	< 2	< 2		3	7	10	15	< 5	2.8	24	6.7	7.7	9.1	2.8		< 2	< 2		< 5	< 5	< 2
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	< 10	11	18	< 10	< 10	< 10	< 10	< 10	< 10	< 10		40	66	200	< 10	< 10	13	21	< 10	< 10	< 10	< 10		< 10	< 10		< 10	< 10	< 10
o-Xylene	nc	nc	nc	< 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	< 5	5.9	7.5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0		33	65	120	24	22	7.2	12	< 5.0	< 5.0	< 5.0	< 5.0		< 5	< 5		< 5	< 5	< 5
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	< 10	5	< 10	16.9	25.5	< 10	< 15	< 15	< 15	< 15	< 15	< 15		73	131	320	24	22	20.2	33	< 15	< 15	< 15	< 15		< 10	< 10		< 10	< 10	< 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	ns	na	na	na	na	na	na	na	na	na	na	ns	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-cres	10	nc	nc																																											
Cresol (o,m,p)	10	nc	nc																																										
Naphthalene	20	nc	nc																																										
Metals, Method 6010B/7470A							na						na		na													ns												ns						
Barium	2,000	nc	nc	< 20	< 20f	na		na	0.0	0.0	0.0	0.0		na		na	na	402	63	< 20	25.9	< 20	< 20	27.1						55	40	276	143	140	34.1	49.7	na	na				57	25	20.3	30.1	31.1	31
Cadmium	5	7.8	51	30.8	< 5.0	< 5.0		na	0.0	0.0	0.0	0.0		na		na	na	< 5	< 5	< 5	< 5	< 5	< 5	< 5						< 5	< 5	na	< 5	< 5	< 5	< 5	na	na				< 5	< 5	< 5	< 5	< 5	< 5
Chromium	100	47	310	< 10	38.5	na		na	0.0	0.0	0.0	0.0		na		na	na	57	< 10	< 10	< 10	< 10	< 10	< 10						< 10	< 10	30.2	25.7	68.9	21.9	307	na	na				< 10	< 10	< 10	11.3	< 10	< 10
Copper	1,300	630	4,090	1,470	520	na		na	0.0	0.0	0.0	0.0		na		na	na	72	< 20	< 10	< 10	< 10	< 10	< 10						< 20	< 20	53.8	25.6	18.7	< 10	13	na	na				< 20	< 20	< 10	12.5	< 10	< 10
Lead	15	15	15	< 10	< 10	12.1		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				< 10	< 10	< 10	< 10	< 10	< 10
Manganese	ne	ne	ne	na	na	na		na	6,920	12,600	16,900	15,600		16,800		15,700	11,100	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	1,130	857	na		788	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				33	< 20	< 20	24.7	< 20	< 20
Zinc	2,000	4,700	nc	372	156	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				35	< 20	< 20	26.2	< 20	45.7

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

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

[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

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

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-10 24 to 34 ft bg												MW-11 28 to 38 ft bg																		MW-12 36 to 46 ft bg																	
				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	Oct-13	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
Volatile Organics, Method 8260																																		ns															ns
Acetone	4,000	nc[c]	nc	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 20	< 20	< 20	< 50	< 20	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50	< 50	< 100		< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	
Benzene	5	4.4	8.7	< 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	< 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	
Bromodichloromethane	100	nc	nc	< 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	< 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	
2-Butanone	2,000	nc	nc	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 10	< 10	< 10	< 50	< 10	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50	< 50	< 100		< 10	< 10	< 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	< 5	< 5	na	na	na	na	na	na	na	na	na			na	na	na	na	na	na	< 5		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	< 5	< 5	na	na	na	na	na	na	na	na	na			na	na	na	na	na	na	13		na	na	na	na	na	na	na	na	na	na	na	na	
Carbon disulfide	4,000	nc	nc	< 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	< 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	
Carbon Tetrachloride	5	4.9	10					< 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	
Chlorobenzene	100	27	136	< 5	< 5.0	< 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	130	22.0	250	79.0	180	13	37	13		< 5	< 5	< 5	< 5	< 5	< 5	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Chloroform	100	nc	nc	< 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	< 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	
Dibromochloromethane	100	nc	nc	< 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	< 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	
1,2-Dichlorobenzene	600	nc	nc	< 5	< 5.0	< 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	5.8	< 5.0	7	< 5.0	6.5	< 5.0	< 5.0	63		41	28	15	22	16	36	17	21	12	5.6	8.5	10.0	
1,3-Dichlorobenzene	600	nc	nc	< 5	< 5.0	< 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	7.6	< 5.0	12	< 5.0	12	< 5.0	< 5.0	13		11	7	< 5	6	< 5	8.7	< 5.0	6.4	< 5.0	< 5.0	< 5.0	< 5.0	
1,4-Dichlorobenzene	75	35	73	< 5	< 5.0	< 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	14	< 5.0	25	11	22	< 5.0	5.9	11		7.6	< 5	< 5	< 5	< 5	6.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
1,1-Dichloroethane	4,000	nc	nc	< 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	< 5.0	< 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	
1,2-Dichloroethane	5	1.6	2.9	< 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	< 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	
1,1-Dichloroethene	7	103	524	< 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	< 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	
cis-1,2-Dichloroethene	70	156	1,020	< 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	< 5.0	13.0	< 5.0	< 5.0	6.9	56	< 5.0	69	10	8.9	< 5.0	45.0	3,830		120	990	390	1,200	1,400	2,000	180	170	120	23	360	200	
trans-1,2-Dichloroethene	100	32	161	< 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	< 5.0	< 5.0	< 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	
Total 1,2-Dichloroethene	105[b]	192[b]	1,160[b]	< 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	61	< 10	74	15	13.9	< 10	50	3,857		125	996.6	395	1209	1410	2013	185	175	125	28	365	205	
Ethylbenzene	700	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	7.9	< 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	
Isopropylbenzene	5	207	nc	< 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	< 5.0	< 5.0	< 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	
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	na	na	na	na	18		na	na	na	na	na	na	na	na	na	na	na	na	
Methylene chloride	5	nc	nc	< 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	< 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	
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	na	na	na	na	69		na	na	na	na	na	na	na	na	na	na	na	na	
Styrene	100	nc	nc	< 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	< 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	
Tetrachloroethene	5	1.3	3.9	< 5	< 5.0	< 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	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	< 5.0	5.7	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
Toluene	1,000	nc	nc	< 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	< 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	
1,1,1-Trichloroethane	200	nc	nc	< 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	< 5.0	< 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	
1,1,2-Trichloroethane	5	nc	nc	< 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	< 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	
Trichloroethene	5	18	35	< 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	< 5.0	5.7	< 5.0	< 5.0	< 5.0	11	< 5.0	13	< 5.0	< 5.0	< 5.0	10.0	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 5.0	< 5.0	6.9	< 5.0	< 5.0	< 5.0	
Trichlorofluoromethane	2,000	nc	nc	< 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	< 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	
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	na	na	na	na	397		na	na					na	na	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	na	na	na	na	91		na	na					na	na	na	na	na	na	
Vinyl Chloride	2	1.1	3.3	< 2	< 2.0	< 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	< 2.0	< 2.0	< 2.0	40		< 5	39	32	64	64	69	21	9.2	4.6	< 2.0	25	6.8	
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 10	< 10	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	< 5.0	15		14	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
o-Xylene	nc	nc	nc	< 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	5.6	< 5.0	5.4	< 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	
Total Xylene	10,000	nc	nc	< 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	< 15	< 15	< 15	< 15	< 15	< 10	< 10	32		28	12	7.6	6.2	< 15	6.1	< 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	na	ns	na	na	na	na	na	na	na	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-cres	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	na	na	na	na	na	na	na	na	ns								na	na	na				ns
Barium	2,000	nc	nc	39.4												118	192	66.9	57.5	131	54.3	194												1,210		22	38.5	28.9	38.2	42.2	87.1				0.0	0.0	0.0	
Cadmium	5	7.8	51	< 5												< 5	< 5	< 5	< 5	< 5	< 5	< 5												< 5		< 5	< 5	< 5	< 5	< 5	< 5				0.0	0.0	0.0	
Chromium	100	47	310	< 10												14	31	< 10	< 10	< 10	< 10	43.6												193		< 10	< 10	15.7	15.7	< 10	< 10				0.0	0.0	0.0	
Copper	1,300	630	4,090	< 10												< 20	31	< 10	< 10	< 10	< 10	19.4												298		< 10	< 10	< 10	< 10	< 10	< 10				0.0	0.0	0.0	
Lead	15	15	15	< 10												< 10	< 10	< 10	< 10	< 10	< 10	< 10												64		< 10	< 10	< 10	< 10	< 10	< 10				na	na	na	
Manganese	ne	ne	ne	na												na	na	na	na	na	na	na												na		na	na	na	na	na	na				8,970	7,170	8,110	
Nickel	100	310	2,040	29.3												83	66	62.5	49.7	37.9	35.2	76.1												267		28	43.0	34.3	31	31.5	71.9				na	na	na	
Zinc	2,000	4,700	nc	37.6												36	67	< 20	< 20	< 20	< 20	99.9												451		< 20	< 20	< 20	< 20	< 20	< 20				na	na	na	

[a] "nr" = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

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

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-12 36 to 46 ft bg Apr-12	Oct-12	Apr-13	Oct-13	MW-13a 35 to 50 ft bg Dec-01	May-02	Sep-03
Volatile Organics, Method 8260					ns					ns
Acetone	4,000	nc[g]	nc	< 50		< 50	< 50	< 100	< 100	
Benzene	5	4.4	8.7	< 5.0		< 5.0	< 5.0	< 5	< 5	
Bromodichloromethane	100	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
2-Butanone	2,000	nc	nc	< 50		< 50	< 50	< 100	< 100	
n-Butylbenzene	5	626	4,088	na		na	na	< 5	< 5	
sec- Butylbenzene	5	626	4,088	na		na	na	< 5	< 5	
Carbon disulfide	4,000	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Carbon Tetrachloride	5	4.9	10	< 5.0		< 5.0	< 5.0			
Chlorobenzene	100	27	136	< 5.0		< 5.0	< 5.0	< 5	< 5	
Chloroethane	10	nc	nc	< 10		< 10	< 10	< 10	< 10	
Chloroform	100	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Dibromochloromethane	100	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,2-Dichlorobenzene	600	nc	nc	11		7.4	< 5.0	< 5	< 5	
1,3-Dichlorobenzene	600	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,4-Dichlorobenzene	75	35	73	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,1-Dichloroethane	4,000	nc	nc	< 5.0		< 5.0	5.0	< 5	< 5	
1,2-Dichloroethane	5	1.6	2.9	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,1-Dichloroethene	7	103	524	< 5.0		< 5.0	< 5.0	< 5	< 5	
cis-1,2-Dichloroethene	70	156	1,020	140		110	49	< 5	< 5	
trans-1,2-Dichloroethene	100	32	161	< 5.0		< 5.0	< 5.0	< 5	< 5	
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	145		115	54	< 10	< 10	
Ethylbenzene	700	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Isopropylbenzene	5	207	nc	< 5.0		6.3	10.0	< 5	< 5	
p- Isopropyl toluene	5	200	1,010	na		na	na	< 5	< 5	
Methylene chloride	5	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Naphthalene	20	nc	nc	na		na	na	< 5	< 5	
Styrene	100	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Tetrachloroethene	5	1.3	3.9	< 5.0		< 5.0	< 5.0	< 5	< 5	
Toluene	1,000	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,1,1-Trichloroethane	200	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,1,2-Trichloroethane	5	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Trichloroethene	5	18	35	< 5.0		< 5.0	< 5.0	< 5	< 5	
Trichlorofluoromethane	2,000	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
1,2,4-Trimethylbenzene				na		na	na	< 5	< 5	
1,3,5-Trimethylbenzene				na		na	na	< 5	< 5	
Vinyl Chloride	2	1.1	3.3	10		6.9	4.0	< 2	< 2	
m&p-Xylene	nc	nc	nc	< 10		< 5.0	< 5.0	< 10	< 10	
o-Xylene	nc	nc	nc	< 5.0		< 5.0	< 5.0	< 5	< 5	
Total Xylene	10,000	nc	nc	< 15		<10	< 10	< 15	< 15	
Semi-Volatile Organics, Method 8270				na	ns	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-cres	10	nc	nc							
Cresol (o,m,p)	10	nc	nc							
Naphthalene	20	nc	nc							
Metals, Method 6010B/7470A					ns	ns				ns
Barium	2,000	nc	nc	0.0		na	na	412	344	
Cadmium	5	7.8	51	0.0		na		< 5	< 5	
Chromium	100	47	310	0.0		na		25	25	
Copper	1,300	630	4,090	0.0		na		< 20	23	
Lead	15	15	15	na		na		16	17	
Manganese	ne	ne	ne	8,110		10,000		na	na	
Nickel	100	310	2,040	na		na		< 20	< 20	
Zinc	2,000	4,700	nc	na		na		67	94	

Parameter	MW-13aR 46 to 56 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
Volatile Organics, Method 8260												ns			
Acetone	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
Benzene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
2-Butanone	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
n-Butylbenzene	na	na	na	na	na	na	na	na	na	na	na		na	na	na
sec- Butylbenzene	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Carbon disulfide	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Carbon Tetrachloride									< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Chlorobenzene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Chloroethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Chloroform	15	12	19	13	20	27	24	23	< 5.0	7.9	16		19	18	8.3
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	< 5	< 5	< 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	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Total 1,2-Dichloroethene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Ethylbenzene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Isopropylbenzene	< 5	< 5	< 5	< 5	na	na	na	na	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
p- Isopropyl toluene	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Methylene chloride	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Naphthalene	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Styrene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Toluene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 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	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Trichloroethene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Trichlorofluoromethane	< 5	< 5	< 5	< 5	< 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
1,3,5-Trimethylbenzene									na	na	na		na	na	na
Vinyl Chloride	< 5	< 5	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0
m&p-Xylene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 5.0
o-Xylene	< 5	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Total Xylene	< 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
1,2-Dichlorobenzene															
1,3-Dichlorobenzene															
1,4-Dichlorobenzene															
2,4-Dimethylphenol															
Bis(2-Ethylhexyl)phthalate															
2-Methylnaphthalene															
2-Methylphenol (o-cresol)															
4-Methylphenol (m&p-cres															
Cresol (o,m,p)															
Naphthalene															
Metals, Method 6010B/7470A							na		na	na	na	ns	na	na	na
Barium	150	185	261	480	na	na		na							
Cadmium	< 5	< 5	< 5	< 5	na	na		na							
Chromium	< 10	15.9	36.5	951	563 J	< 10.0		na							
Copper	< 10	< 10	13.6	72.8	na	na		na							
Lead	< 10	< 10	< 10	< 10	na	na		na							
Manganese	na	na	na	na	na	na		na							
Nickel	< 20	< 20	22	603	na	na		< 20							
Zinc	< 20	< 20	60	117	na	na		na							

Parameter	MW-13b 78.5 to 83.5 ft bg 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			
Acetone	< 100	< 100	< 20	< 20	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
Benzene	< 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
Bromodichloromethane	< 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
2-Butanone	< 100	< 100	< 10	< 10	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50		< 50	< 50	< 50
n-Butylbenzene	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na
sec- Butylbenzene	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Carbon disulfide	< 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
Carbon Tetrachloride												< 5.0	< 5.0	< 5.0		< 5.0	< 5.0	< 5.0
Chlorobenzene	< 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
Chloroethane	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Chloroform	< 5	5	14	28	30	36	26	24	32	27	30	34	19	24		23	24	15
Dibromochloromethane	< 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
1,2-Dichlorobenzene	< 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
1,3-Dichlorobenzene	< 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
1,4-Dichlorobenzene	< 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
1,1-Dichloroethane	< 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
1,2-Dichloroethane	< 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
1,1-Dichloroethene	< 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
cis-1,2-Dichloroethene	< 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
trans-1,2-Dichloroethene	< 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
Total 1,2-Dichloroethene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10
Ethylbenzene	< 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
Isopropylbenzene	< 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
p- Isopropyl toluene	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Methylene chloride	< 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
Naphthalene	< 5	< 5	na	na	na	na	na	na	na	na	na	na	na	na		na	na	na
Styrene	< 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
Tetrachloroethene	< 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
Toluene	< 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
1,1,1-Trichloroethane	< 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
1,1,2-Trichloroethane	< 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
Trichloroethene	< 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
Trichlorofluoromethane	< 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
1,2,4-Trimethylbenzene												na	na	na		na	na	na
1,3,5-Trimethylbenzene												na	na	na		na	na	na
Vinyl Chloride	< 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	< 2.0
m&p-Xylene	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	<5.0
o-Xylene	< 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
Total Xylene	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	<10
Semi-Volatile Organics, Method 8270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	ns	na	na	na
1,2-Dichlorobenzene																		
1,3-Dichlorobenzene																		
1,4-Dichlorobenzene																		
2,4-Dimethylphenol																		
Bis(2-Ethylhexyl)phthalate																		
2-Methylnaphthalene																		
2-Methylphenol (o-cresol)																		
4-Methylphenol (m&p-cres																		
Cresol (o,m,p)																		
Naphthalene																		
Metals, Method 6010B/7470A								na	na	na	na	na	na	na	ns	na	na	na
Barium	246	455	108	44.4	42	42.5	33.8											
Cadmium	< 5	< 5	na	< 5	< 5	< 5	< 5											
Chromium	22	50	< 10	< 10	< 10	< 10	< 10											
Copper	33	67	< 10	< 10	< 10	< 10	< 10											
Lead	< 10	26	< 10	< 10	< 10	< 10	< 10											
Manganese	na	na	na	na	na	na	na											
Nickel	20	40	< 20	< 20	< 20	< 20	< 20											
Zinc	81	243	< 20	39.7	< 20	< 20	< 20											

Parameter	MW-14 40 to 50 ft bg Jun-02	Sep-03	May-04	Jul-06	Apr 07 - Oct 0	Apr-10
Volatile Organics, Method 8260		na			ns	
Acetone	< 20		< 20	< 20		
Benzene	< 5		< 5	< 5		< 5.0
Bromodichloromethane	< 5		< 5	< 5		
2-Butanone	< 10		< 10	< 10		
n-Butylbenzene	na		na	na		
sec- Butylbenzene	na		na	na		
Carbon disulfide	< 5		< 5	< 5		
Carbon Tetrachloride						
Chlorobenzene	< 5		< 5	< 5		< 5.0
Chloroethane	< 5		< 10	< 10		
Chloroform	< 5		< 5	< 5		< 5.0
Dibromochloromethane	< 5		< 5	< 5		
1,2-Dichlorobenzene	na		< 5	< 5		< 5.0
1,3-Dichlorobenzene	na		< 5	< 5		< 5.0
1,4-Dichlorobenzene	na		< 5	< 5		< 5.0
1,1-Dichloroethane	< 5		< 5	< 5		< 5.0
1,2-Dichloroethane	< 5		< 5	< 5		< 5.0
1,1-Dichloroethene	< 5		< 5	< 5		< 5.0
cis-1,2-Dichloroethene	< 5		< 5	< 5		< 5.0
trans-1,2-Dichloroethene	< 5		< 5	< 5		< 5.0
Total 1,2-Dichloroethene	< 10		< 10	< 10		< 10
Ethylbenzene	< 5		< 5	< 5		< 5.0
Isopropylbenzene	na		< 5	< 5		< 5.0
p- Isopropyl toluene	na		na	na		
Methylene chloride	< 5		< 5	< 5		
Naphthalene	na		na	na		
Styrene	< 5		< 5	< 5		
Tetrachloroethene	< 5		< 5	< 5		< 5.0
Toluene	< 5		< 5	< 5		
1,1,1-Trichloroethane	< 5		< 5	< 5		< 5.0
1,1,2-Trichloroethane	< 5		< 5	< 5		
Trichloroethene	< 5		< 5	< 5		< 5.0
Trichlorofluoromethane	na		< 5	< 5		
1,2,4-Trimethylbenzene						
1,3,5-Trimethylbenzene						
Vinyl Chloride	< 5		< 5	< 5		< 2.0
m&p-Xylene	< 5		< 10	< 10		< 10
o-Xylene	< 5		< 5	< 5		< 5.0
Total Xylene	< 5		< 15	< 15		< 15
Semi-Volatile Organics, Method 8270	na	na	na	na	ns	na
1,2-Dichlorobenzene						
1,3-Dichlorobenzene						
1,4-Dichlorobenzene						
2,4-Dimethylphenol						
Bis(2-Ethylhexyl)phthalate						
2-Methylnaphthalene						
2-Methylphenol (o-cresol)						
4-Methylphenol (m&p-cres						
Cresol (o,m,p)						
Naphthalene						
Metals, Method 6010B/7470A					ns	na
Barium	0.157	208	200	117		
Cadmium	< 0.005	< 5	< 5	< 5		
Chromium	< 0.010	12.3	10.5	142		
Copper	0.02	< 10	< 10	13.7		
Lead	< 0.010	14.3	< 10	< 10		
Manganese	na	na	na	na		
Nickel	< 0.020	< 20	< 20	152		
Zinc	0.039	73.6	52.1	43.4		

[a] ''nr' = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 establshed as parameter not regulated under HSRA.

(shaded) = Exceeds Type 1, Type 2, Type 3, and Type 4 RRSs.

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	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																	MW-18 54 to 64 ft bgs						
				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 - Oct 13	Jun-02	Sep 03 - Oct 13	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	Aug-06	Apr-07	Oct-07	Apr-08	Oct-08	Apr-09	Oct 09 - Apr 13
Volatile Organics, Method 8260						ns	ns	ns												ns		ns							ns															ns
Acetone	4,000	nc[c]	nc		< 50				< 50	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50		< 20		< 20	< 20	< 20	< 50	< 20	< 50		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 20	< 50	< 50	< 50	
Benzene	5	4.4	8.7	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Bromodichloromethane	100	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
2-Butanone	2,000	nc	nc		< 50				< 50	< 50	< 50	< 50	< 50			< 50	< 50	< 50	< 50	< 50		< 10		< 10	< 10	< 10	< 50	< 10	< 50		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 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	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	na	
Carbon disulfide	4,000	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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																									
Chlorobenzene	100	27	136	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Chloroethane	10	nc	nc		< 10				< 10	< 10	< 10	< 10	< 10			< 10	< 10	< 10	< 10	< 10		< 5		< 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				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	12	8.6	7.7	6.1	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Dibromochloromethane	100	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,2-Dichlorobenzene	600	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,3-Dichlorobenzene	600	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,4-Dichlorobenzene	75	35	73	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,1-Dichloroethane	4,000	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,2-Dichloroethane	5	1.6	2.9		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,1-Dichloroethene	7	103	524	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
cis-1,2-Dichloroethene	70	156	1,020	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
trans-1,2-Dichloroethene	100	32	161	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	< 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	< 10	
Ethylbenzene	700	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Isopropylbenzene	5	207	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	na	na	na	na	na	na	na	na	na	
Methylene chloride	5	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
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	na	
Styrene	100	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Tetrachloroethene	5	1.3	3.9	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	5.7	5.7	< 5.0	< 5.0	< 5.0	
Toluene	1,000	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,1,1-Trichloroethane	200	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
1,1,2-Trichloroethane	5	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Trichloroethene	5	18	35	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 5	< 5.0	< 5.0	< 5.0	
Trichlorofluoromethane	2,000	nc	nc		< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2	< 2	< 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		< 5		< 10	< 10	< 10	< 10	< 10	< 10		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
o-Xylene	nc	nc	nc	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5	< 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	< 10		< 5		< 15	< 15	< 15	< 15	< 15	< 15		< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	
Semi-Volatile Organics, Method 8270				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	ns	na	na	na	na	na	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-cres	10	nc	nc																																								
Cresol (o,m,p)	10	nc	nc																																								
Naphthalene	20	nc	nc																																								
Metals, Method 6010B/7470A				na	na	ns	ns	ns	na	na		na	na	na	na	na	na	na	na	na	ns		ns						na	ns	na	na	na	na	na	ns	na	na	na	na	na	na	ns
Barium	2,000	nc	nc								na											0.273		20.1	98.8	63.1	47.1	376											111	< 20	< 20				
Cadmium	5	7.8	51								< 5											< 0.005		na	< 5	< 5	< 5	< 5											< 5	< 5	< 5				
Chromium	100	47	310								< 10											0.039		14.3	< 10	14.8	< 10	34.4											359	< 10	13.3				
Copper	1,300	630	4,090								na											0.09		17.5	< 10	< 10	< 10	25.5											64.6	12.6	< 10				
Lead	15	15	15								< 10											0.029		< 10	< 10	< 10	< 10	10.5											< 10	< 10	< 10				
Manganese	ne	ne	ne								na											na		na	na	na	na	na											na	na	na				
Nickel	100	310	2,040								na											0.057		< 20	< 20	< 20	< 20	< 20											176	77	71.2				
Zinc	2,000	4,700	nc								na											0.213		< 20	< 20	< 20	< 20	266											64.8	< 20	< 20				

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

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

[c] "J" indicates reported between MDL and PQL. Estimated below detection limit. (Information based on current method of reporting. Orignal 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 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

Parameter	Type 1, Type 3 RRS	Type 2 RRS	Type 4 RRS	MW-19 31 to 41 ft												MW-20 33 to 43 bgs		OW-72 107 to 135 ft bg				OW-72 107 to 135 ft bg																OW-74A 42 to 81 ft bg							
				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-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-01	May-01	Nov-01	May-02	Nov-02	May-03	May-04	Nov-04
Volatile Organics, Method 8260																																												
Acetone	4,000	nc[c]	nc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 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	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Bromodichloromethane	100	nc	nc	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
2-Butanone	2,000	nc	nc	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	<50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 500	< 500	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	130.0	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 200
n-Butylbenzene	5	626	4,088	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	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	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	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	< 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	< 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	< 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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0								
Chlorobenzene	100	27	136	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Chloroethane	10	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 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	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Dibromochloromethane	100	nc	nc	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,2-Dichlorobenzene	600	nc	nc	31	17	75	< 5.0	5.0	< 5.0	7.1	< 5.0	35.0	< 5.0	24	< 5.0	< 5.0	<5.0	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	18.0	10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,3-Dichlorobenzene	600	nc	nc	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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,4-Dichlorobenzene	75	35	73	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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,1-Dichloroethane	4,000	nc	nc	< 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	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	14.0	10	3	2	2	< 2	< 2	< 2	< 4
1,2-Dichloroethane	5	1.6	2.9	< 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	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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,1-Dichloroethene	7	103	524	< 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	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	2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
cis-1,2-Dichloroethene	70	156	1,020	< 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	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	790	350	150	140	97	190	190	180
trans-1,2-Dichloroethene	100	32	161	< 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	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	4	2	2	< 2	< 2	< 2	2	< 4
Total 1,2-Dichloroethene	105[b]	192[b]	1,160[b]	< 10	< 10	11.7	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<10	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	794	352	152	142	99	192	192	184
Ethylbenzene	700	nc	nc	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Isopropylbenzene	5	207	nc	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
p- Isopropyl toluene	5	200	1,010	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
Methylene chloride	5	nc	nc	< 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	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Naphthalene	20	nc	nc	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 50	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	< 5.0	< 5.0	< 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	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Tetrachloroethene	5	1.3	3.9	< 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	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	23	10	8	7	5	5	6	5
Toluene	1,000	nc	nc	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,1,1-Trichloroethane	200	nc	nc	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
1,1,2-Trichloroethane	5	nc	nc	< 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	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Trichloroethene	5	18	35	< 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	360	360	250	140	49	45	72	23	54	92	93	67	43	80	29	44	58	71	44	47	41	34	31	49	130	60	33	31	22	25	28	24
Trichlorofluoromethane	2,000	nc	nc	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
1,2,4-Trimethylbenzene									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								
Vinyl Chloride	2	1.1	3.3	< 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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20
m&p-Xylene	nc	nc	nc	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5.0	<5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
o-Xylene	nc	nc	nc	< 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	< 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	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Total Xylene	10,000	nc	nc	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<10	<10	<10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 25	< 25	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	<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	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-cres	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	73.6														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	< 5														8	6	< 5	< 5	< 5	10	< 5	20	< 5	< 5	< 5	< 5													< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chromium	100	47	310	11.8														< 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	< 10														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	< 10														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	na
Nickel	100	310	2,040	84.3														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	44														260	390	140	150	230	230	80	130	70	61.5	86.5	58.9													180	200	< 20	60	40	20	5	< 20

[a] "nr" = Analytical reports not available to determine detection limits.
[b] "na" = Not analyzed for this parameter or by this method.
[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

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

Table 3-3. Historical Groundwater Sampling Detections for 1998-2013
Former Olympic Manufacturing Site, Smyrna, GA

Concentration, ug/L

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									MW-A 30-40 ft	MW-B 32-42 ft	MW-C 34-44 ft	MW-D 34-44 ft
				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-01	May-01	Nov-01	May-02	Nov-02	May-03	May-04	Nov-04	Sep-06	Jul-06	Jul-06	Jan-08
Volatile Organics, Method 8260																														
Acetone	4,000	nc[c]	nc	< 100	< 20	< 50	< 20	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	na	na	< 20	< 20
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	20
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 5
2-Butanone	2,000	nc	nc	< 100	< 10	< 50	< 10	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100	< 100	< 100	< 100	< 100	< 100	< 100	< 100	na	na	< 10	< 10
n-Butylbenzene	5	626	4,088	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	na	
sec-Butylbenzene	5	626	4,088	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	na	
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 5
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	< 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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	12
Chloroethane	10	nc	nc	< 5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 10	< 10
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 5
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	24	14	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	16
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 5
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	5.2
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	26	18	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
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	3	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
cis-1,2-Dichloroethene	70	156	1,020	4	31	170	180	120	150	64	120	150	210	200	180	120	100	74	180	1,800	1,300	15	18	32	170	< 2	200	na	na	< 5	19
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	7	5	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
Total 1,2-Dichloroethene	105[h]	192[h]	1,160[h]	6	36	175	185	125	155	69	125	155	215	205	185	125	105	79	185	1,807	1,305	17	20	34	172	< 4	202	na	na	< 10	24
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	65
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	6.1
p-Isopropyl toluene	5	200	1,010	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	na	
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	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 5	< 5
Naphthalene	20	nc	nc	< 10	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	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	< 5.0	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 5	< 5
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	45	29	< 2	< 2	< 2	6	< 2	5	110	< 5	< 5	< 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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	7.1
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
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	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	na	na	< 5	< 5
Trichloroethene	5	18	35	< 2	5.6	32	24	17	23	11	14	16	28	16	21	16	14	7.7	13.0	210	160	4	4	6	30	4	26	450	< 5	< 5	< 5
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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 5
1,2,4-Trimethylbenzene												na	na	na	na	na	na	na	na												
1,3,5-Trimethylbenzene												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	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	na	na	< 5	< 2
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	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 10	75
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	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 5	220
Total Xylene	10,000	nc	nc	< 5	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 15	< 10	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	na	na	< 15	295
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
1,2-Dichlorobenzene	600	nc	nc																												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-cres	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	30	32.1	80.2	86.5													20	20	20	20	20	50	30	50	na	na	101	
Cadmium	5	7.8	51	< 5	< 5	< 5	< 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	na	na	10.2	
Copper	1,300	630	4,090	< 20	26.1	< 10	< 10													50	70	< 20	< 20	< 20	< 20	< 20	< 20	na	na	16	
Lead	15	15	15	< 15	< 10	< 10	< 10													280	220	< 15	< 15	< 15	< 15	< 15	< 15	na	na	14.2	
Manganese	ne	ne	ne	na	na	na	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	655	54	192	
Zinc	2,000	4,700	nc	1,700	505	< 20	< 20													160	140	< 20	90	90	40	40	< 20	na	na	26.9	

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

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

[c] "J" indicates reported between MDL and PQL. Estimated below 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 established as parameter not regulated under HSRA.

= Exceeds Type 1, Type 2, Type 3, and Type 4 RR

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-08	Oct-08	Apr-09	Oct-09	Oct-11	Apr-12	Oct-12	Apr-13	Oct-13	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
Methane	0.400	0.055	0.170	0.036	0.077	0.048	0.210	0.069	0.013	0.130	0.290	ns	0.190	0.130	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
Nitrate	0.54	< 2.5	< 0.25	< 0.25	<1.2	< 2.5	na	< 2.5	< 0.25	< 0.25	< 1.2	ns	<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
Sulfate	58	280	67	97	110	280	na	190	210	45	26	ns	230[J]	2.7	150	na	150	130	120	97	51[J]	99	110	110	120	na	120	65
Total Organic Carbon	37.2	52.4	31.0	33.1	32.5	57.6	na	42.0	37.5	21.0	27.9	ns	34.6	3.21	< 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
Manganese	4.09	58.7	23.8	21.4	na	50.3	na	na	1.62[J]	11.9	95.7	ns	26.1	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
pH (S.U.)	7.18[e]	6.88	6.63	6.63	6.48	6.76	7.41	6.92	6.48	6.68	6.90	ns	6.41	6.31	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
Dissolved Oxygen	8.41[e]	2.69	0.17	4.45	0.32	0.33	7.03	0.47	0.65	14.79	3.52	ns	0.14	0.28	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
Potassium Permanganate	< 0.89	na	na	na	na	270	12	< 0.89	< 0.89	na	na	ns	na	na	800	1.8	< 0.89	1	< 0.89	< 0.89	na	na	na	na	na	na	na	na
Ferrous Iron	< 0.1	< 0.100	< 1.0[UJ]	< 0.100	< 0.1[UJ]	< 10	na	< 0.100	< 0.100	< 0.100	< 0.100	ns	0.609[J]	1.06	< 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
Oxidation-Reduction Potential (millivolts)	369.2			35.2	-129.9	687.6						ns	-82.6	-0.36	696	270.1									117.6	na	-52.0	45.0

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	Oct-13	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	0.170	< 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[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	10	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	5.17	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	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	6.66	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	0.28	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			
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	26.4	2.25[J]	8.51	< 10.0	9.60	7.55	2.80	8.66[J]	3.75	3.41			
Oxidation-Reduction Potential (millivolts)	-133.2		-85.1										ns	-97.5	-137.6	238.7	-22.3						-127.1	54.4			

[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 June 22 to December 12, 2013
Former Olympic Manufacturing Site, Smyrna, Georgia

Month, Person	Role	Hours Billed	Services Provided
2013			
June 22-30			
Trish	Project Manager	24.50	Groundwater Modeling Review, Report Preparation
Greg, Jeff W.	Senior Hydrogeologists (2)	6.50	Groundwater Modeling
Brian	Project Geologist	0.50	Report Preparation
Elaine, Lavana	Admin Assistants (2)	7.00	Report Preparation
Rhona	Project Assistant	2.25	Data Analysis & Report Preparation
Carol	Regional Biller	0.75	Administrative
	Labor Subtotal, Hours	**41.50**	
	Subs and Expenses	**$876.62**	
July			
Trish	Project Manager	2.50	Financial Assurance Renewal, Project Communications and Mgmt
Elaine	Admin Assistant	0.50	Administrative
Rhona	Project Assistant	0.25	Administrative
	Labor Subtotal, Hours	**3.25**	
	Subs and Expenses	**$13.00**	
August			
Trish	Project Manager	2.75	Project Communications and Management
	Labor Subtotal, Hours	**2.75**	
	Subs and Expenses	**$118.00**	
September			
Trish	Project Manager	25.50	Comm. & Coord w/EPD, Remedial Strategy Development, Asstce Rel to Property Sale, GW Sampling Preparation
Greg	Senior Hydrogeologist	1.50	Remedial Strategy Development
Steve	Managing Scientist	0.50	Remedial Strategy Development
Carol	Regional Biller	1.00	Administrative
Rhona	Project Assistant	1.75	Administrative
	Labor Subtotal, Hours	**30.25**	
	Subs and Expenses	**$210.61**	
October			
Trish	Project Manager	33.50	Groundwater Sampling, Comm.& Coord w/EPD, New Well Siting, Utility Permit Application
Rachel	Engineer II	2.75	Utility Permit Application
Juan	Engineer II	37.50	Groundwater Sampling
Brian	Geologist II	4.50	Groundwater Sampling Support
Ryan	Scientist II	7.00	Groundwater Sampling
George	Geologist I	24.00	Groundwater Sampling
Rhona	Project Assistant	0.50	Administrative
	Labor Subtotal, Hours	**109.75**	
	Subs and Expenses	**$1,208.71**	

Table 5-1. Brown and Caldwell Billing and Services from June 22 to December 12, 2013 Former Olympic Manufacturing Site, Smyrna, Georgia			
Month, Person	**Role**	**Hours Billed**	**Services Provided**
November			
Trish	Project Manager	18.50	Groundwater Sampling, Report Prep, Utility Permit Application
Sarah	Scientist III	0.75	Data Validation
Ryan, Eileen	Scientist II (2)	2.75	Data Management
Juan	Engineer II	6.50	Data Management, Table and Figure Preparation
George	Geologist I	9.50	Table and Figure Preparation
Carol	Regional Biller	1.00	Administrative
Elaine	Admin Assistant	0.25	Administrative
Rhona	Project Assistant	0.25	Administrative
	Labor Subtotal, Hours	**39.50**	
	Subs and Expenses	**$6,073.99**	
December 1 - 12			
Trish	Project Manager	18.75	Report Prepartation, Utility Permit Coordination
Brian	Geologist II	9.75	Report Preparation
Eileen	Scientist II	2.50	Table and Figure Preparation
Juan	Engineer II	1.50	Table and Figure Preparation
Rachel	Engineer II	2.00	Table and Figure Preparation
Rhona	Project Assistant	0.25	Administrative
	Labor Subtotal, Hours	**34.75**	
	Subs and Expenses	**$2,828.37**	

Appendix A: Notes Regarding September 19, 2013 Meeting with EPD

Georgia Department of Natural Resources
Environmental Protection Division
2 Martin Luther King, Jr. Dr., S.E., Suite 1054 East, Atlanta, Georgia 30334
Judson H. Turner, Director
Land Protection Branch
Phone: 404/657-8600 FAX: 404/657-0807

MEMORANDUM

TO: David Brownlee, Unit Coordinator
Response and Remediation Program

FROM: Allan Nix, Geologist
Response and Remediation Program

DATE: September 25, 2013

RE: EPD Meeting and Teleconference with Diversey Representatives
Diversey Olympic Manufacturing (Former)
VRP Site Number 1267564281, HSI Site Number 10435

The above-referenced meeting took place in Conference Room B in Suite 1054 on the 10th floor of the East Tower on September 19, 2013, at 2pm. The attendees were as follows:

- Benjamin Moline, Water Resources and Real Estate Manager for Molson Coors Brewing Company (parent company of Rathon, an RP)
- Harvey Sheldon (via telephone), attorney, outside counsel for the The Hillshire Group (an RP)
- Patricia Reifenberger, of Brown & Caldwell, consultant for both RPs
- Kent Magill (via telephone), attorney, internal counsel for the The Hillshire Group

The RPs wanted this meeting with EPD to get feedback on work already performed and to chart a path to delisting.

The RPs asked for EPD's feedback on the draft environmental covenant, from which some of EPD's original boilerplate language was deleted. The draft covenant includes water-well restrictions and also brings the targeted property into the VRP as an additional qualifying property. Wesley Properties, which adjoins the site on the east, has been non-responsive to the RPs' request to sign a covenant. The EPD replied as follows:

1. EPD wants a "redline" version of the draft covenant which shows those parts of the EPD model covenant that were deleted.
2. An environmental covenant is not necessary to bring a property into the VRP as a qualifying property. The qualifying property owner need only agree to allow the RPs and EPD access to the property to complete assessment and remediation activities. Upon approval of a final CSR, the seeking of covenants from nearby property owners constitutes the RPs' final task prior to removal of a site from the HSI.

Given EPD's reply that obtaining covenants is commonly the last step in the delisting process, the RPs stated that they may pursue preparation of a CSR prior to obtaining covenants from property owners.

The RPs contended that they are not responsible for groundwater contamination on the adjoining warehouse property at 5210 Olympic Industrial Court. Wells MW-9a and MW-9b, which are both on the warehouse property, have not been sampled recently. EPD responded that Diversey is the likely source of contaminants in the warehouse groundwater, given that an alternative source for those contaminants has not been identified, and that all contaminants in the warehouse groundwater have previously been detected in Diversey groundwater. EPD acknowledged that the mechanism by which groundwater contaminants migrated to the warehouse property from Diversey is unclear.

The RPs stated that the owner of the aforementioned warehouse property has been unwilling to grant access for additional well installations, or for other investigative subsurface activities. EPD suggested that the adjoining warehouse property could be brought into the VRP as a qualifying property, and that additional well installations and soil borings may not be necessary. An existing well west of the warehouse could possibly be used for groundwater delineation.

The RPs requested permission to discontinue sampling of several wells that have historically been below applicable RRSs. EPD said that sampling of historically non-detect wells could possibly be discontinued. EPD recommended that those wells requested to be dropped from the monitoring program be specified in an email submittal.

EPD reiterated its position, stated in an earlier meeting, that MW-4b could be used for vertical delineation of contaminants in groundwater, on the condition that a spike in concentrations does not occur in that well.

EPD wanted one additional well installed for horizontal delineation of groundwater, in the area of the S&S Realty property. A well on Elizabeth Lane, between the OW-74 and OW-77 well clusters, would suffice.

The RPs stated that they have discontinued groundwater monitoring for manganese, but EPD replied that monitoring of at least one well with high manganese concentrations should be continued.

Action Items from Meeting

1. RPs will email to EPD a redline version of the draft covenant for review.
2. RPs will email to EPD a request to drop some wells from the monitoring program, and will specify those wells to be dropped and why.
3. RPs will install an additional delineation well at a location on Elizabeth Lane between the OW-74 and OW-77 well clusters.
4. RPs will resume monitoring of manganese in groundwater.
5. EPD will provide Harvey Sheldon with a sample environmental covenant that has already been approved for use on another HSI site.
6. EPD will make a statement in its upcoming Diversey VRP comment letter that soil delineation on site is complete.

7. EPD will make a statement in its upcoming Diversey VRP comment letter approving the removal of certain wells from the monitoring program, pursuant to the email referenced in Action Item 2 above.

Attachments: Meeting Sign-In Sheet

MEETING SIGN-IN SHEET

September 19, 2013

NAME (Please print)	REPRESENTING
Ben Moline	Rathon - Smyrna site
Trish Reifenberger	Brown and Caldwell / RPs
David Brownlee	GA EPD
Allan Nix	↓
Harvey Sheldon (Telephone)	Hinshaw & Culbertson / Hillshire Brands
Kent Magill ↓	The Hillshire Brands Company

Reifenberger, Trish

From:	Reifenberger, Trish
Sent:	Tuesday, October 08, 2013 5:11 PM
To:	'Allan Nix'
Cc:	David Brownlee (David.Brownlee@dnr.state.ga.us); 'Magill, Kent'; Moline, Benjamin; Harvey Sheldon
Subject:	RE: EPD Meeting Memo, PPCSR documents, Request to Discontinue Monitoring of Certain Wells
Attachments:	Wells to Discontinue Monitoring.xlsx

Allan,

Thank you for forwarding the notes from our meeting and the documents related to Airgas' PPCSR. We have a few minor additions to the meeting notes, and appreciate your standing by what was discussed in our meeting whether in the notes or not. Our request to discontinue monitoring in certain wells is also provided below.

Meeting Notes

We propose the following revisions to the notes:

Corrections

1. Page 2, Paragraph 6: We are still monitoring groundwater in the sump area for manganese, and thus we suggest the sentence be revised as follows: "The RPs inquired regarding the need for future work related to manganese. EPD replied that as manganese is not a regulated compound its presence will not keep the site from being delisted, however, monitoring of at least one well with high manganese concentrations should be continued." (new text in blue).
2. Page 2 Action Item no. 4: Revise the sentence as follows: "RPs will continue monitoring of manganese in groundwater in at least one well where concentrations are currently high".

Additions

1. In their upcoming comment letter EPD will provide confirmation of the delineation and clean-up standards previously proposed by the RPs. They will be the same as proposed by the RPs, with only a few minor changes.
2. Action Item: EPD will let RPs know if they need additional information on the groundwater model following their review of the June 2013 semiannual report.
3. Action Item: EPD will provide approval and/or comments on the groundwater model and the conclusions from the modeling in the upcoming comment letter.

Wells to Discontinue Monitoring

Hillshire Brands and Rathon propose to discontinue monitoring in wells in which no groundwater concentrations have exceeded either a detection or a cleanup level in the last 2 events. This would result in discontinuing monitoring of the 12 wells indicated on the attached table.

As we discussed, the next groundwater monitoring event is scheduled to occur this month. We have scheduled the event for late in the month to allow time for review our proposal. ***We would appreciate your getting back to us by Friday October 18th so that we can incorporate the changes in the fieldwork.***

Additionally, will you please confirm that since both delineation and cleanup have already been achieved in these wells, we can certify compliance in them now and no additional sampling will be required later to certify compliance?

If you have any questions on the above comments or other matters related to the site, please let me know. We appreciate your time in meeting with us, and in reviewing and responding to the above comments and requests. Thank you very much.

Trish

Trish Reifenberger, P.E.
Project Manager

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T 770.673.3630 | **F** 770.396.9495

* Professional Registration in specific states

Brown AND Caldwell

For secure transfer of large files please use my dropbox: http://dropbox.yousendit.com/TrishReifenberger

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From: Nix, Allan x [mailto:Allan.Nix@dnr.state.ga.us]
Sent: Thursday, September 26, 2013 11:29 AM
To: Reifenberger, Trish
Cc: Brownlee, David x
Subject: EPD Meeting Memo, PPCSR documents

Trish—

As promised, I have attached a copy of the meeting memo, in PDF format. I do not think that I omitted anything important, but please let me know if you notice something. We will stand by our word, regardless.

Also attached, FYI, are the the Airgas LOL letter, the subsequent soil sampling report associated with the LOL, and our confirmation that the soil-remediation requirement in the LOL has been satisfied.

Thank you again for your diligence.

Allan C. Nix, P.G.
Georgia EPD Response and Remediation Program
404-657-8600
Allan.nix@gaepd.org

No. of Events Below Cleanup and Detection Levels, as of April 2013 Semiannual Event
Former Olympic Manufacturing Site, Smyrna, Georgia

Last Detected Above Detection Level		No. of Events below Threshold																						
		MW-1R	MW-2	MW-3R	MW-4a IW-4	MW-4b	MW-5	MW-6	MW-7R	MW-8	MW-10	MW-11	MW-12	MW-13aR	MW-13b	MW-14	MW-14b	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	OW-72	OW-74A
Events Below All Cleanup Levels																									
0	Apr-13																	Dry	Dry						
1	Oct-12																						b		
2	Apr-12																								
3	Oct-11																				NS[a]				
≥4	≤ Apr-11																								
Events Below All Delineation Levels																									
0	Apr-13																	Dry	Dry						
1	Oct-12																						b		
2	Apr-12																								
3	Oct-11																				NS				
≥4	≤ Apr-11																								
Discontinue Monitoring?		√		√			√		√		√			√	√	√	√			√	√	√			

[a] No results above delineation or cleanup levels in three events prior to when monitoring of MW-18 was discontinued in October 2009 (none since October 2007).

[b] No COCs detected in first sampling event (April 2013).

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

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-2

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Juan Nunez

Project Location: Smyrna GA Weather: Cloudy

2. WELL DATA

Date Measured: 10/28/13 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: 31.00 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: 9.00 feet Well Volume: 1.5 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: 10/28/13 Time: 1200 Equipment Model(s)

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

1.

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

2.

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

3.

Volume to Purge (minimum): 3 well volumes or 4.5 gallons

4.

Was well purged dry? ☐ Yes ☒ No Pumping Rate: .05 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
1220	0	5.52	17.73	0.138	281.2	2.83	35.4	31.97	
1225	0.25	5.60	17.77	0.133	272.2	1.27	180	33.12	
1230	0.50	5.60	17.76	0.133	272.4	1.27	116	33.39	
1235	0.75	5.63	17.75	0.134	268.7	1.19	79.1	33.81	
1240	1.0	5.65	17.76	0.138	261.5	1.16	64.4	34.09	

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: 35.62 Field Filtered? ☐ Yes ☒ No

Sample ID: 1330-MW-2 Sample Date: 10/28/13 Sample Time: 1425 # of Containers: 2

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

Equipment Blank Collected? ☒ Yes ☐ No ID: 1330-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 collected at 1500

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 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
1245	1.25	5.68	17.75	0.140	257.2	1.06	43.3	34.45	
1250	1.50	5.69	17.78	0.142	253.6	1.02	30.5	34.56	
1255	1.75	5.72	17.81	0.144	247.7	0.97	21.6	34.60	
1300	2.00	5.73	17.81	0.145	245.3	0.94	15.6	34.72	
1305	2.25	5.75	17.81	0.147	242.4	0.88	23.7	34.80	
1310	2.50	5.77	17.80	0.148	241.6	0.87	22.1	34.91	
1315	2.75	5.76	17.82	0.149	240.0	0.85	33.3	35.02	
1320	3.00	5.78	17.84	0.151	237.7	0.85	31.7	35.13	
1325	3.25	5.79	17.84	0.153	237.6	0.84	32.5	35.22	29.6 = Turb
1330	3.50	5.81	17.83	0.154	236.0	0.80	28.7	35.25	
1335	3.75	5.82	17.83	0.155	233.8	0.78	25.8	35.33	
1340	4.00	5.83	17.81	0.156	232.5	0.75	23.1	35.36	
1345	4.25	5.84	17.81	0.157	232.3	0.74	19.0	35.40	
1350	4.50	5.85	17.80	0.158	231.5	0.75	22.1	35.54	
1400	5.00	5.87	17.80	0.159	228.8	0.67	14.9	35.48	
1410	5.50	5.88	17.77	0.160	225.7	0.65	13.9	35.55	
1420	5.80	5.89	17.79	0.161	220.7	0.61	9.48	35.61	

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-4a

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: JW

Project Location: Smyrna GA Weather: Cloudy 60°

2. WELL DATA

Date Measured: 10/30/13 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: 42.34 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: 3.66 feet Well Volume: 0.61 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: 10/30/13 Time: 0930 Equipment Model(s)

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

1.

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

2.

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

3.

4.

Volume to Purge (minimum): 3 well volumes or 1.8 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
~~1010~~	0	6.37	19.01	0.852	-62.8	0.84	41.5	42.44	
1015	0.1	6.42	19.10	0.849	-69.4	0.80	0.29	42.49	
~~1022~~	0.2	6.42	19.11	0.855	-78.8	0.76	0.58	42.44	
1025	0.3	6.42	18.99	0.859	-94.1	0.67	1.27	42.50	
~~1028~~	0.4	6.42	18.95	0.863	-101.2	0.72	0.87	42.55	

Purge data continued on next sheet? ☒

4. SAMPLING DATA

Method(s): ☐ Bailer, Size: ☐ Bladder Pump ☒ 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: 42.82 Field Filtered? ☐ Yes ☒ No

Sample ID: 13303-MW-4a Sample Date: 10/30/13 Sample Time: 1115 # of Containers: 7

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

Equipment Blank Collected? ☒ Yes ☐ No ID: 13303-EB # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

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 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
1031	0.5	6.43	18.93	0.865	-105.9	0.72	0.61	42.59	
1034	0.6	6.43	18.92	0.868	-109.9	0.64	0.52	42.59	
1038	0.8	6.44	18.92	0.869	-112.6	0.56	0.83	42.59	
1043	1.0	6.45	18.91	0.867	-120.3	0.46	0.33	42.65	
1048	1.2	6.46	18.90	0.865	-122.4	0.42	0.18	42.69	
1053	1.4	6.47	18.89	0.861	-125.5	0.37	0.21	42.75	
1100	1.6	6.45	18.86	0.855	-128.7	0.34	0.11	42.81	
1106	1.8	6.48	18.84	0.854	-129.9	0.32	0.15	42.81	

Purge data continued on next sheet? ☐

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

2/2

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-4b

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Juan Nunez

Project Location: Smyrna GA Weather: 55°

2. WELL DATA

Date Measured: 10/29/13 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: 45.11 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: 55.89 feet Well Volume: 9.33 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: 10/29/13 Time: 0900 Equipment Model(s)

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

1.

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

2.

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

3.

Volume to Purge (minimum): 3 well volumes or 28.0 gallons

4.

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
~~0945~~	0	7.51	18.61	0.322	-187.9	0.37	0.60	45.71	
~~0950~~	0.2	7.56	18.60	0.327	-211.1	0.33	0.42	47.15	
~~0955~~	0.4	7.56	18.68	0.328	-213.4	0.22	0.63	47.41	
~~1000~~	0.5	7.56	18.80	0.330	-219.4	0.19	0.37	47.81	
1005	0.6	7.58	18.89	0.332	-228.4	0.18	1.25	48.35	water has black particles.

Purge data continued on next sheet? No

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: 49.02 Field Filtered? ☐ Yes ☒ No

Sample ID: 133C2-MW4B Sample Date: 10/29/13 Sample Time: 1020 # 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

Micro purge method,

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
1010	0.7	7.58	18.92	0.333	-234.6	0.17	1.10	4861	

Purge data continued on next sheet? ☐

Signature

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-6

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: MJ

Project Location: Smyrna GA Weather: ~60° Sunny

2. WELL DATA

Date Measured: 10-28-13 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: 24.01 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: 20.99 feet Well Volume: 3.42 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: 10-29-13 Time: 0805

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 10.26 gallons

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

Equipment Model(s)

1. Bluetooth In-Situ
2. ORP
3. GroSub
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
0810 ~~0805~~	2.0	6.20	21.03	135.7	31.7	.21	25	26.01	
0815	4.5	6.25	21.18	144	13.50	.41	2.88	26.01	
0820	6.0	6.32	21.53	158	0.00	.41	7.8	26.01	
0825	8.0	6.34	21.42	163	-2.00	.39	5.41	26.01	
0830	10.0	6.33	22.15	163	-3.90	.29	3.00	26.01	
0835	12.0	6.31	22.11	159	-.34	.28	2.89		

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: B302-MW6 Sample Date: 10-29-13 Sample Time: 0835 # of Containers:

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

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

Signature MJ

Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: MW-8

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: JN

Project Location: Smyrna GA Weather: Sunny 65°

2. WELL DATA

Date Measured: 10/30/13 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: 55 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 49.76 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: 5.24 feet Well Volume: 0.87 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: 10/30/13 Time: 1210 Equipment Model(s)

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

1.

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

2.

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

3.

Volume to Purge (minimum): 3 well volumes or 2.6 gallons

4.

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
~~1200~~	0	6.58	19.33	0.726	-70.4	5.58	48.7	44.10	water is black/gray color
1230	0.25	6.55	18.97	0.738	-66.2	0.84	29.9	44.19	
1236	0.50	6.52	18.81	0.729	-29.6	0.59	11.7	44.22	
1240	0.75	6.49	18.73	0.725	-13.2	0.58	6.10	44.22	
~~1245~~	1.00	6.50	18.71	0.718	-3.0	0.52	3.08	44.22	

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: 44.22 Field Filtered? ☐ Yes ☐ No

Sample ID: 13303-MW-8 Sample Date: 10/30/13 Sample Time: 1320 # of Containers: 8

Duplicate Sample Collected? ☒ Yes ☐ No ID: 13303-MW-30 # 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

FD collected @ 1200

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-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
1250	1.25	6.52	18.69	0.710	6.9	0.46	2.97	44.22	
~~1255~~	1.50	6.52	18.69	0.703	~~64.4~~	0.41	1.95	44.22	ORP = 13.8
1300	1.75	6.51	18.68	0.698	24.4	0.~~37~~	0.40	44.22	
~~1305~~	2.0	6.~~50~~	18.70	0.699	33.4	0.34	0.31	44.22	
~~1310~~	2.25	6.52	18.80	0.702	39.4	0.34	0.09	44.22	
~~1315~~	2.50	6.50	18.82	0.706	43.5	0.32	0.09	44.22	
~~1320~~	2.75	6.51	18.84	0.707	45.0	0.31	0.26	44.22	

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-11

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: MJ

Project Location: Smyrna GA Weather: 70° overcast

2. WELL DATA

Date Measured: 10-28-13 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: 24.91 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: 13.09 feet Well Volume: 2.13 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: 10-28-13 Time: 1335

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 6.5 gallons

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

Equipment Model(s)
1. Bluetooth meter
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
1340 ~~1335~~	~~1.0~~	6.64	20.12	437	-97.1	.11	20.5	25.36	
1345	2.0	6.49	20.14	368	-69.0	.10	13.9	26.00	
1350	3.5	6.43	19.26	377	-60.8	.05	4.0	26.00	
1355	5.5	6.43	19.40	373	-60.8	.02	2.4	26.00	
1400	8.0	6.43	19.53	374	61.9	.01	0.0	26.00	

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: 13301-mw-11 Sample Date: 10-28-13 Sample Time: 1400 # of Containers: 2

Duplicate Sample Collected? ☐ Yes ☑ No ID: — # of Containers: 0

Equipment Blank Collected? ☐ Yes ☑ No ID: — # of Containers: 0

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

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

Signature

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-12

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: Juan Nuñez

Project Location: Smyrna GA Weather: Sunny 70°

2. WELL DATA

Date Measured: 10/29/13 Time: 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: 46 feet From: ☒ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 42.78 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: 3.22 feet Well Volume: 0.5 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: 10/29/13 Time: 1315 Equipment Model(s)

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

1.

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

2.

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

3.

Volume to Purge (minimum): 3 well volumes or 1.6 gallons

4.

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
1315	0	6.58	19.48	0.328	-125.5	1.71	—	39.95	Water is dark gray
1320	0.25	6.63	18.64	0.323	-133.1	0.54	—	40.01	turbidimeter died, switched with GS.
1325	0.40	6.64	18.72	0.323	-132.9	0.56	35.2	40.01	
1330	0.50	6.64	18.65	0.323	-132.0	0.52	18.9	40.01	
1335	0.70	6.65	18.57	0.322	-134.2	0.47	9.71	4003	

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: 40.07 Field Filtered? ☐ Yes ☒ No

Sample ID: 13302-MW-12 Sample Date: 10/29/13 Sample Time: 1410 # 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

WAT

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
1340	0.90	6.65	18.54	0.322	-135.0	0.42	5.81	40.05	
~~1345~~	1.00	6.66	18.69	0.322	-135.5	041	5.48	40.07	
1350	~~1.25~~	6.66	18.73	0.323	-135.9	0.36	3.21	40.07	
~~1355~~	~~1.30~~	6.66	18.54	0.323	-136.7	0.33	6.12	40.07	
~~1400~~	~~1.35~~ 1.45	6.66	18.63	0.323	-136.7	0.31	3.55	40.07	
~~1405~~	~~1.40~~ 1.60	6.66	18.56	0.323	-137.6	0.28	3.01	40.07	
~~1410~~	~~1.50~~ DW								
~~1415~~	~~1.60~~ DW								

Purge data continued on next sheet? ☐

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Signature

2/2

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: MW-20

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern: LCWA Property

Client: Hillshire Brands Personnel: Ryan Jones

Project Location: Smyrna GA Weather: 55°F Rain

2. WELL DATA

Date Measured: 10-28-13 Time: 0900 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: 33.04 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: 11.96 feet Well Volume: 2.0 gal Screened Interval (from GS): 35-45

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: 10-28-13 Time: 1023

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 6 gallons

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

Equipment Model(s)

1. In-Situ - SmartTROLL
2. Geo Sub
3. Heron WLM
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
1035	0.1	7.35	16.50	0.387	0	0.59	86	33.20	
1040	2.5	5.82	16.65	0.062	107.5	6.63	52	33.30	
1045	4.0	5.71	16.65	0.053	95.3	7.07	9.78	33.34	
1050	5.9	5.66	16.67	0.050	95.1	7.23	8.12	33.38	slowed pump
1055	5.5	5.64	16.67	0.048	96.70	7.33	6.26	33.41	

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: 33.45 Field Filtered? ☐ Yes ☑ No

Sample ID: 13301-MW-20 Sample Date: 10-28-13 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

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-20

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
1100	6.5	5.64	16.67	~~0.047~~ 0.048	97.3	7.39	6.31	33.45	
Sample @ 1105									

Purge data continued on next sheet? ☐

Signature

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Brown AND Caldwell

GROUNDWATER SAMPLING FIELD DATA SHEET

WELL ID: OW-72A

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: M

Project Location: Smyrna GA Weather: ~70° overcast

2. WELL DATA

Date Measured: 10-28-13 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: 75.58 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: 59.42 feet Well Volume: 9.92 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: 10-29-13 Time: ~~0910~~ 1110

Equipment Model(s)

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

1. Bluetooth YSI

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

2. DRT

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

3. Geosub

Volume to Purge (minimum): 3 well volumes or 30 gallons

4.

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~~ 1115	2.0	6.22	19.05	245	-167.3	.09	28	91.00	
1120	6.0	6.17	19.18	329	-128.0	.07	21	90.82	
~~1125~~	11.0	6.15	19.48	369	-107	.06	11	90.33	Drawdown stabilized
1130	14.0	6.14	19.70	390	-91.3	.04	130	90.33	
~~1135~~	17.0	6.12	19.76	403	-83	.04	12	90.3	

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: 13302-OW-72A Sample Date: 10-29-13 Sample Time: 1330 # of Containers: 3

Duplicate Sample Collected? ☒ Yes ☑ No ID: 13302-EB # of Containers: 20

Equipment Blank Collected? ☑ Yes ☐ No ID: ✓ # of Containers: 2

Geochemical Analyses

Ferrous Iron: mg/L

DO: mg/L

Nitrate: mg/L

Sulfate: mg/L

Alkalinity: mg/L

5. COMMENTS

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
1140	20.0	6.12	20.55	408	-68	.06			
		1140 Pump shuts down, called AIR & Tried to trouble shoot it. They will bring me a new pump							
1330		pumping again							
~~1335~~	20.0	6.13	19.39	376	-56	.06	1.30	91.00	
1340	23	6.12	19.56	377	-53	.04	.79	91.00	
~~1345~~	25.	6.11	19.48	383	-45.7	.03	.83	9100	
1350	28	6.11	19.43	389	-41.7	.03	.23	91.00	
~~1355~~	32	6.11	19.39	394	-37.40	.02	.17	91.00	
~~1400~~	35.	6.10	19.35	396	-34.80	.02	.00	91.00	will pump
~~1405~~	37.	6.10	19.30	394	-33.10	.01	.00	91.00	extra to ensure
~~1410~~	40.	6.10	19.30	396	-33.00	.01	.00	91.00	one to pump shut off
		Sample 1410 All parameters							

Purge data continued on next sheet? ☐

Signature

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

GROUNDWATER SAMPLING FIELD DATA SHEET

Brown AND Caldwell

WELL ID: OW-74A

1. PROJECT INFORMATION

Project Number: 141054 Task Number: 060 Area of Concern:

Client: Hillshire Brands Personnel: M

Project Location: Smyrna GA Weather:

2. WELL DATA

Date Measured: 10-26-13 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: 81 feet From: ☑ Top of Well Casing (TOC) ☐ Top of Protective Casing ☐ Other:

Depth to Static Water: 17.66 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: 63.34 feet Well Volume: 10.37 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: 10-29-13 Time: 0940

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 31 gallons

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

Equipment Model(s)
1. Bluetooth Equipment
2. DRT
3. Geo. Inb
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
~~0945~~	3.0	5.85	16.31	115	37.3	3.18	41	19.89	slight drawdown
0950	8.0	5.76	17.15	206	39.8	1.90	76	19.89	appears to
~~0955~~	11.0	5.72	17.48	227	21.3	.50	64	19.89	be 1.5 gpm.
1000	16.0	5.70	19.60	225	13.8	.15	16	19.89	
~~1005~~	20.0	5.70	19.88	239	-2.9	.10	11	19.89	
1010	24.0	5.69	19.32	246	-70.0	.13	12.1		

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: 13302-OW-74A Sample Date: 10-29-13 Sample Time: 1025 # 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

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 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
~~1015~~	27.0	5.70	19.66	245	-231	.13	9.89	19.91	
~~1020~~	31.0	5.69	19.52	245	-210	.14	8.70	19.91	
~~1025~~	35.0	5.69	19.78	245	-189	.15	6.13	19.91	

Sample 1025

Purge data continued on next sheet? ☐

2 of 2

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

Signature

Appendix C: 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

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-1R		1.55	2.38	37.6	19.04 C	5.75	0.64	0.424
		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

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-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
		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

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	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
		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

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	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
		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	0.160

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	25.5	9.48	17.79	5.89	0.61	0.161
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
	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

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-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
	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

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-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
		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

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-4a	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
	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
		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-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

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
		2.05	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
		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

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	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
		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

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	0.1	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
		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
		0.7	0.1	1.10	18.92	7.58	0.17	0.333
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

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
		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
		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

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
		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
		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
		15.00	3.33	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

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-6		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
		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

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	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
		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
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
		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

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		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
		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

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Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		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
	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

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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		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
		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

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
		1.45	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
		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

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
		2.5	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
MW-8		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	0.707
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
		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

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
		0.9	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
MW-9a	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
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

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	3.7	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
		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

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
	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
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
		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

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
		1.95	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
		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

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
		2.5	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
		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

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	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
		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
MW-11	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

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
		0.45	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
	13-Apr	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
	13-Oct	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	0.0	19.53	6.43	0.01	374
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

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
		1.18	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
		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	3.01	18.56	6.66	0.28	0.323
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

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	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
		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

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
		4.4	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
	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

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
		0.3	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
		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

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
		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
MW-13b		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
		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

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	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
		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

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
		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
MW-14b	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
		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

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Monitoring Well	Date	Volume (gallons)	Well Volume	Turbidity (NTU)	Temp., degrees	pH	Dissolved Oxygen, mg/L	Conductivity, mS/cm
		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				
	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
MW-17	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
		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

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
		1.45	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
MW-17		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
		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

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	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
		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

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	0.5	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
		1.25	0.6	35.9	20.81	5.23	0.85	0.167

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	0.9	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
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

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
		2.5	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
		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

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
		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
		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
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
		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

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	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
		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

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	1.8	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
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

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
		0.5	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
		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

[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 three measurements.

[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 D: Laboratory Reports and Data Validation Forms *(on CD Rom)*

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 11-20-13

Project Number: 140054 Project Name/Client: Hill Shire Farms

Project Manager: T. Reifenberger Sampled By: _____

Laboratory: AES Order No.: 1310045

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: VOC, methane, TOC, Ferrous iron, nitrate/sulfate, manganese

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

Duplicates: MW-30 is dup of MW-8

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°C

☑ 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: ① See comments

☑ 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: (3) See comments

☐ 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: (2) See comments

☑ Yes ☐ No ☐ NA **Were any laboratory control samples reported?**
If yes: Notes: _____

☐ Yes ☑ No ☐ NA **Were calibration standards reported?**
If yes: Notes: _____

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

(1) A trip blank was in the cooler but not on the COC. Lab proceeded with analysis.
Due to sample matrix, sample -001E had to be diluted prior to analysis resulting in elevated reporting limits.

(2) Matrix spike and matrix spike duplicate for sample MW-4a had recoveries (Ferrous iron) below the acceptable range. Action Required - Qualify the non-detect result as undetected with an estimated limit of detection (UJ).

(3) See attached sheet for a detailed duplicate comparison.

SE Jones
Signature of Data Verifier

(Rev 3/14/13 - SEJ)

Brown AND Caldwell

LABORATORY DATA VERIFICATION

Sample Duplicate Comparison

PROJECT INFORMATION

Project Number: 1410S4 **Project Name:** Hill Shire Farms **Task/Purpose of Sampling:** Semiannual GW Monitoring
Project Manager: T. Reifenberger **Client:** Hill Shire Farms
Laboratory: AES **Data Report:** 1310O45

DUPLICATE INFORMATION

Parent Sample ID: 13303-MW-8 **Date/Time:** 103013 1320 **Matrix:** Groundwater
Duplicate Sample ID: 13303-MW-30 **Date/Time:** 103013 **Matrix:** Groundwater

Analytes (Units)	Analytical Results[a]		Relative Percent Difference (RPD) Comparison		Reporting Limit (RL) Comparison (If Needed)					Actions Required
	13303-MW-8	13303-MW-30	RPD	Inorg: RPD > 20%? Org: RPD > 30%?	13303-MW-8		13303-MW-30		Either Sample Conc. ≥ 2X RLs?	
					RL	2x RL	RL	2x RL		
1,1-Dichloroethane (ug/L)	22	23	4%	NO						No further action required.
1,2-Dichlorobenzene (ug/L)	23	23	0%	NO						No further action required.
1,3-Dichlorobenzene (ug/L)	6.8	6.9	1%	NO						No further action required.
1,4-Dichlorobenzene (ug/L)	5.6	5.3	6%	NO						No further action required.
cis-1,2-Dichloroethene (ug/L)	2400	2600	8%	NO						No further action required.
Tetrachloroethene (ug/L)	18	17	6%	NO						No further action required.
trans-1,2-Dichloroethene (ug/L)	15	15	0%	NO						No further action required.
Trichloroethene (ug/L)	17	16	6%	NO						No further action required.
Vinyl Chloride (ug/L)	2.1	2	5%	NO						No further action required.
Manganese (mg/L)	11.1	11.2	1%	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.

November 06, 2013

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: 1310O45

Analytical Environmental Services, Inc. received 5 samples on 10/30/2013 2:55:00 PM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 131807)

Date: 10/28/13 Page _____ of _____

COMPANY:	ADDRESS:
BC	990 Hammond Dr, suite 400 Atlanta, GA 30328
PHONE: 770 394-2997	FAX:
SAMPLED BY: Juan Nunez	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOC	Methane	TOC	Ferrous Iron	NO3/Sulfate	Manganese								REMARKS	No # of Containers
							PRESERVATION (See codes)														
1	13303-MW-4A	10/30/13	1115	X		GW	X	X	X	X	X										7
2	13303-EB	10/30/13	1145	X		GW	X														2
3	13303-MW-8	10/30/13	1320	X		GW	X	X	X	X	X	X									8
4	13303-MW-30	10/30/13	1200	X		GW	X					X									3
5																					
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:	10/30/13 1348	1: N.C, 10.30.13 1.45 pm	
2: N-C 10.30.13 2.55P		2:	10.30.13 2.55
3:		3:	

PROJECT INFORMATION	
PROJECT NAME:	Hillshire farm
PROJECT #:	141054
SITE ADDRESS:	Smyrna GA
SEND REPORT TO:	Trish Reifenberger
INVOICE TO: (IF DIFFERENT FROM ABOVE)	Treifenberger@cbrunow.com
QUOTE #:	PO#:

RECEIPT	
Total # of Containers	20

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: 6-Nov-13

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab ID: 1310O45

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Ion Chromatography Analysis by Method 9056:

Due to sample matrix, sample 1310O45-001E required a dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-4A
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 11:15:00 AM
Lab ID:	1310O45-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	32.5	1.00		mg/L	R255057	1	11/01/2013 13:22	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,1-Dichloroethane	6.8	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,1-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,2-Dibromoethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,2-Dichlorobenzene	350	50		ug/L	183075	10	11/01/2013 15:50	AK
1,2-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,2-Dichloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,3-Dichlorobenzene	160	5.0		ug/L	183075	1	10/31/2013 12:51	AK
1,4-Dichlorobenzene	81	5.0		ug/L	183075	1	10/31/2013 12:51	AK
2-Butanone	BRL	50		ug/L	183075	1	10/31/2013 12:51	AK
2-Hexanone	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
4-Methyl-2-pentanone	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
Acetone	BRL	50		ug/L	183075	1	10/31/2013 12:51	AK
Benzene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Bromodichloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Bromoform	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Bromomethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Carbon disulfide	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Carbon tetrachloride	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Chlorobenzene	5.6	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Chloroethane	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
Chloroform	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Chloromethane	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
cis-1,2-Dichloroethene	7400	500		ug/L	183075	100	11/01/2013 14:26	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Cyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Dibromochloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Dichlorodifluoromethane	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
Ethylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Freon-113	BRL	10		ug/L	183075	1	10/31/2013 12:51	AK
Isopropylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
m,p-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Methyl acetate	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-4A
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 11:15:00 AM
Lab ID:	1310O45-001	**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	183075	1	10/31/2013 12:51	AK
Methylene chloride	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
o-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Styrene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Tetrachloroethene	18	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Toluene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
trans-1,2-Dichloroethene	48	5.0		ug/L	183075	1	10/31/2013 12:51	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Trichloroethene	37	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Trichlorofluoromethane	BRL	5.0		ug/L	183075	1	10/31/2013 12:51	AK
Vinyl chloride	3.6	2.0		ug/L	183075	1	10/31/2013 12:51	AK
Surr: 4-Bromofluorobenzene	80.3	66.2-120		%REC	183075	100	11/01/2013 14:26	AK
Surr: 4-Bromofluorobenzene	81.8	66.2-120		%REC	183075	10	11/01/2013 15:50	AK
Surr: 4-Bromofluorobenzene	89.3	66.2-120		%REC	183075	1	10/31/2013 12:51	AK
Surr: Dibromofluoromethane	109	79.5-121		%REC	183075	10	11/01/2013 15:50	AK
Surr: Dibromofluoromethane	109	79.5-121		%REC	183075	100	11/01/2013 14:26	AK
Surr: Dibromofluoromethane	117	79.5-121		%REC	183075	1	10/31/2013 12:51	AK
Surr: Toluene-d8	95.6	77-117		%REC	183075	10	11/01/2013 15:50	AK
Surr: Toluene-d8	99.9	77-117		%REC	183075	100	11/01/2013 14:26	AK
Surr: Toluene-d8	100	77-117		%REC	183075	1	10/31/2013 12:51	AK
ION SCAN SW9056A								
Nitrate	BRL	1.2		mg/L	R255099	5	10/30/2013 19:16	GR
Sulfate	110	5.0		mg/L	R255099	5	10/30/2013 19:16	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	77	4		ug/L	182982	1	10/31/2013 09:29	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100	U5	mg/L	R254976	1	10/31/2013 10:55	AB

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 11:45:00 AM
Lab ID:	1310O45-002	**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	183075	1	10/31/2013 13:19	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,1-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,1-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2-Dibromoethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,2-Dichloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
2-Butanone	BRL	50		ug/L	183075	1	10/31/2013 13:19	AK
2-Hexanone	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
4-Methyl-2-pentanone	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
Acetone	BRL	50		ug/L	183075	1	10/31/2013 13:19	AK
Benzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Bromodichloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Bromoform	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Bromomethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Carbon disulfide	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Carbon tetrachloride	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Chlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Chloroethane	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
Chloroform	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Chloromethane	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Cyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Dibromochloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Dichlorodifluoromethane	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
Ethylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Freon-113	BRL	10		ug/L	183075	1	10/31/2013 13:19	AK
Isopropylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
m,p-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Methyl acetate	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Methylcyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Methylene chloride	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
o-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 11:45:00 AM
Lab ID:	1310O45-002	**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	183075	1	10/31/2013 13:19	AK
Tetrachloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Toluene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Trichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Trichlorofluoromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:19	AK
Vinyl chloride	BRL	2.0		ug/L	183075	1	10/31/2013 13:19	AK
Surr: 4-Bromofluorobenzene	77	66.2-120		%REC	183075	1	10/31/2013 13:19	AK
Surr: Dibromofluoromethane	108	79.5-121		%REC	183075	1	10/31/2013 13:19	AK
Surr: Toluene-d8	97.7	77-117		%REC	183075	1	10/31/2013 13:19	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-8
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 1:20:00 PM
Lab ID:	1310O45-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	15.6	1.00		mg/L	R255057	1	11/01/2013 13:48	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,1-Dichloroethane	22	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,1-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2-Dibromoethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2-Dichlorobenzene	23	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,2-Dichloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,3-Dichlorobenzene	6.8	5.0		ug/L	183075	1	10/31/2013 13:47	AK
1,4-Dichlorobenzene	5.6	5.0		ug/L	183075	1	10/31/2013 13:47	AK
2-Butanone	BRL	50		ug/L	183075	1	10/31/2013 13:47	AK
2-Hexanone	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
4-Methyl-2-pentanone	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
Acetone	BRL	50		ug/L	183075	1	10/31/2013 13:47	AK
Benzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Bromodichloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Bromoform	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Bromomethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Carbon disulfide	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Carbon tetrachloride	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Chlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Chloroethane	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
Chloroform	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Chloromethane	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
cis-1,2-Dichloroethene	2400	100		ug/L	183075	20	11/01/2013 14:54	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Cyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Dibromochloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Dichlorodifluoromethane	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
Ethylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Freon-113	BRL	10		ug/L	183075	1	10/31/2013 13:47	AK
Isopropylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
m,p-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Methyl acetate	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-8
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 1:20:00 PM ✓
Lab ID:	1310O45-003	**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	183075	1	10/31/2013 13:47	AK
Methylene chloride	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
o-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Styrene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Tetrachloroethene	18	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Toluene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
trans-1,2-Dichloroethene	15	5.0		ug/L	183075	1	10/31/2013 13:47	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Trichloroethene	17	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Trichlorofluoromethane	BRL	5.0		ug/L	183075	1	10/31/2013 13:47	AK
Vinyl chloride	2.1	2.0		ug/L	183075	1	10/31/2013 13:47	AK
Surr: 4-Bromofluorobenzene	79	66.2-120		%REC	183075	1	10/31/2013 13:47	AK
Surr: 4-Bromofluorobenzene	77.9	66.2-120		%REC	183075	20	11/01/2013 14:54	AK
Surr: Dibromofluoromethane	105	79.5-121		%REC	183075	20	11/01/2013 14:54	AK
Surr: Dibromofluoromethane	109	79.5-121		%REC	183075	1	10/31/2013 13:47	AK
Surr: Toluene-d8	94	77-117		%REC	183075	1	10/31/2013 13:47	AK
Surr: Toluene-d8	98.7	77-117		%REC	183075	20	11/01/2013 14:54	AK
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R255099	1	10/30/2013 17:33	GR
Sulfate	65	1.0		mg/L	R255099	1	10/30/2013 17:33	GR
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Methane	21	4		ug/L	182982	1	10/31/2013 09:43	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	BRL	0.100		mg/L	R254976	1	10/31/2013 10:55	AB
METALS, TOTAL SW6010C				(SW3010A)				
Manganese	11.1	0.0150		mg/L	183033	1	11/04/2013 18:05	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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-30
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 12:00:00 PM
Lab ID:	1310O45-004	**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	183075	1	10/31/2013 14:15	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,1-Dichloroethane	23	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,1-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2-Dibromoethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2-Dichlorobenzene	23	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,2-Dichloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,3-Dichlorobenzene	6.9	5.0		ug/L	183075	1	10/31/2013 14:15	AK
1,4-Dichlorobenzene	5.3	5.0		ug/L	183075	1	10/31/2013 14:15	AK
2-Butanone	BRL	50		ug/L	183075	1	10/31/2013 14:15	AK
2-Hexanone	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
4-Methyl-2-pentanone	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
Acetone	BRL	50		ug/L	183075	1	10/31/2013 14:15	AK
Benzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Bromodichloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Bromoform	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Bromomethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Carbon disulfide	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Carbon tetrachloride	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Chlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Chloroethane	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
Chloroform	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Chloromethane	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
cis-1,2-Dichloroethene	2600	100		ug/L	183075	20	11/01/2013 15:22	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Cyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Dibromochloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Dichlorodifluoromethane	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
Ethylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Freon-113	BRL	10		ug/L	183075	1	10/31/2013 14:15	AK
Isopropylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
m,p-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Methyl acetate	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Methylcyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Methylene chloride	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
o-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13303-MW-30
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013 12:00:00 PM ✓
Lab ID:	1310O45-004	**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	183075	1	10/31/2013 14:15	AK
Tetrachloroethene	17	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Toluene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
trans-1,2-Dichloroethene	15	5.0		ug/L	183075	1	10/31/2013 14:15	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Trichloroethene	16	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Trichlorofluoromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:15	AK
Vinyl chloride	2.0	2.0		ug/L	183075	1	10/31/2013 14:15	AK
Surr: 4-Bromofluorobenzene	80.1	66.2-120		%REC	183075	1	10/31/2013 14:15	AK
Surr: 4-Bromofluorobenzene	79.7	66.2-120		%REC	183075	20	11/01/2013 15:22	AK
Surr: Dibromofluoromethane	105	79.5-121		%REC	183075	20	11/01/2013 15:22	AK
Surr: Dibromofluoromethane	119	79.5-121		%REC	183075	1	10/31/2013 14:15	AK
Surr: Toluene-d8	103	77-117		%REC	183075	1	10/31/2013 14:15	AK
Surr: Toluene-d8	98	77-117		%REC	183075	20	11/01/2013 15:22	AK
METALS, TOTAL SW6010C				**(SW3010A)**				
Manganese	11.2	0.0150		mg/L	183033	1	11/04/2013 18:40	JL

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013
Lab ID:	1310O45-005	**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	183075	1	10/31/2013 14:43	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,1-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,1-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2-Dibromoethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2-Dichloroethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,2-Dichloropropane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
2-Butanone	BRL	50		ug/L	183075	1	10/31/2013 14:43	AK
2-Hexanone	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
4-Methyl-2-pentanone	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
Acetone	BRL	50		ug/L	183075	1	10/31/2013 14:43	AK
Benzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Bromodichloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Bromoform	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Bromomethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Carbon disulfide	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Carbon tetrachloride	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Chlorobenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Chloroethane	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
Chloroform	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Chloromethane	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Cyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Dibromochloromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Dichlorodifluoromethane	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
Ethylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Freon-113	BRL	10		ug/L	183075	1	10/31/2013 14:43	AK
Isopropylbenzene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
m,p-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Methyl acetate	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Methylcyclohexane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Methylene chloride	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
o-Xylene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	10/30/2013
Lab ID:	1310O45-005	**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	183075	1	10/31/2013 14:43	AK
Tetrachloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Toluene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Trichloroethene	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Trichlorofluoromethane	BRL	5.0		ug/L	183075	1	10/31/2013 14:43	AK
Vinyl chloride	BRL	2.0		ug/L	183075	1	10/31/2013 14:43	AK
Surr: 4-Bromofluorobenzene	75.9	66.2-120		%REC	183075	1	10/31/2013 14:43	AK
Surr: Dibromofluoromethane	111	79.5-121		%REC	183075	1	10/31/2013 14:43	AK
Surr: Toluene-d8	102	77-117		%REC	183075	1	10/31/2013 14:43	AK

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 1310045

Checklist completed by [signature] 10.30.13
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? (4°C±2)* Yes ✓ No __

Cooler #1 3.4 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.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab Order: 1310O45

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310O45-001A	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	10/31/2013
1310O45-001A	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	11/01/2013
1310O45-001B	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	GC Analysis of Gaseous Samples		10/31/2013	10/31/2013
1310O45-001C	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	Total Organic Carbon (TOC)			11/01/2013
1310O45-001D	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	Ferrous Iron			10/31/2013
1310O45-001E	13303-MW-4A	10/30/2013 11:15:00AM	Groundwater	ION SCAN			10/30/2013
1310O45-002A	13303-EB	10/30/2013 11:45:00AM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	10/31/2013
1310O45-003A	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	10/31/2013
1310O45-003A	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	11/01/2013
1310O45-003B	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	GC Analysis of Gaseous Samples		10/31/2013	10/31/2013
1310O45-003C	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	Total Organic Carbon (TOC)			11/01/2013
1310O45-003D	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	Ferrous Iron			10/31/2013
1310O45-003E	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	ION SCAN			10/30/2013
1310O45-003F	13303-MW-8	10/30/2013 1:20:00PM	Groundwater	TOTAL METALS BY ICP		11/01/2013	11/04/2013
1310O45-004A	13303-MW-30	10/30/2013 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	10/31/2013
1310O45-004A	13303-MW-30	10/30/2013 12:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/31/2013	11/01/2013
1310O45-004B	13303-MW-30	10/30/2013 12:00:00PM	Groundwater	TOTAL METALS BY ICP		11/01/2013	11/04/2013
1310O45-005A	TRIP BLANK	10/30/2013 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/31/2013	10/31/2013

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 182982

Sample ID: **MB-182982**	Client ID:				Units: **ug/L**	Prep Date: **10/29/2013**	Run No: **254865**
SampleType: **MBLK**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **182982**	Analysis Date: **10/30/2013**	Seq No: **5351676**

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-182982**	Client ID:				Units: **ug/L**	Prep Date: **10/29/2013**	Run No: **254865**
SampleType: **LCS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **182982**	Analysis Date: **10/30/2013**	Seq No: **5351678**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	138.0	4	200.0		69.0	45.2	115				

Sample ID: **LCSD-182982**	Client ID:				Units: **ug/L**	Prep Date: **10/29/2013**	Run No: **254865**
SampleType: **LCSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **182982**	Analysis Date: **10/30/2013**	Seq No: **5351680**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	134.7	4	200.0		67.4	45.2	115	138.0	2.38	20	

Sample ID: **1310L09-002CMS**	Client ID:				Units: **ug/L**	Prep Date: **10/29/2013**	Run No: **254865**
SampleType: **MS**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **182982**	Analysis Date: **10/30/2013**	Seq No: **5351704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	127.5	4	200.0		63.8	41.1	115				

Sample ID: **1310L09-002CMSD**	Client ID:				Units: **ug/L**	Prep Date: **10/29/2013**	Run No: **254865**
SampleType: **MSD**	TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**				BatchID: **182982**	Analysis Date: **10/30/2013**	Seq No: **5351707**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.1	4	200.0		67.6	41.1	115	127.5	5.79	20	

Qualifiers:

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

Analytical Environmental Services, Inc **Date:** 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 183033

Sample ID: **MB-183033** Client ID: Units: **mg/L** Prep Date: **11/01/2013** Run No: **255133**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010C** BatchID: **183033** Analysis Date: **11/04/2013** Seq No: **5357784**

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-183033** Client ID: Units: **mg/L** Prep Date: **11/01/2013** Run No: **255133**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010C** BatchID: **183033** Analysis Date: **11/04/2013** Seq No: **5357783**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	1.040	0.0150	1.000		104	80	120				

Sample ID: **1310M99-001AMS** Client ID: **13-9236** Units: **mg/L** Prep Date: **11/01/2013** Run No: **255133**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010C** BatchID: **183033** Analysis Date: **11/04/2013** Seq No: **5357786**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	0.9923	0.0150	1.000	0.01276	98.0	75	125				

Sample ID: **1310M99-001AMSD** Client ID: **13-9236** Units: **mg/L** Prep Date: **11/01/2013** Run No: **255133**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010C** BatchID: **183033** Analysis Date: **11/04/2013** Seq No: **5357792**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	0.9864	0.0150	1.000	0.01276	97.4	75	125	0.9923	0.602	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 183075

Sample ID: **MB-183075** Client ID: Units: **ug/L** Prep Date: **10/31/2013** Run No: **254904**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **183075** Analysis Date: **10/31/2013** Seq No: **5353708**

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
RL	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 183075

Sample ID: **MB-183075** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** BatchID: **183075**
Prep Date: **10/31/2013** Analysis Date: **10/31/2013**
Run No: **254904** Seq No: **5353708**

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	39.96	0	50.00		79.9	66.2	120				
Surr: Dibromofluoromethane	51.87	0	50.00		104	79.5	121				
Surr: Toluene-d8	47.20	0	50.00		94.4	77	117				

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 183075

Sample ID: **LCS-183075** Client ID: Units: **ug/L** Prep Date: **10/31/2013** Run No: **254904**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **183075** Analysis Date: **10/31/2013** Seq No: **5353709**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.12	5.0	50.00		114	63.1	140				
Benzene	51.23	5.0	50.00		102	74.2	129				
Chlorobenzene	54.09	5.0	50.00		108	70	129				
Toluene	51.53	5.0	50.00		103	74.2	129				
Trichloroethene	58.57	5.0	50.00		117	71.2	135				
Surr: 4-Bromofluorobenzene	49.76	0	50.00		99.5	66.2	120				
Surr: Dibromofluoromethane	55.88	0	50.00		112	79.5	121				
Surr: Toluene-d8	50.54	0	50.00		101	77	117				

Sample ID: **1310N83-001AMS** Client ID: Units: **ug/L** Prep Date: **10/31/2013** Run No: **254904**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **183075** Analysis Date: **10/31/2013** Seq No: **5353715**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	638.6	50	500.0		128	60.2	159				
Benzene	512.9	50	500.0		103	70.2	138				
Chlorobenzene	535.4	50	500.0		107	70.1	133				
Toluene	530.6	50	500.0		106	70	139				
Trichloroethene	583.9	50	500.0		117	70.1	144				
Surr: 4-Bromofluorobenzene	507.1	0	500.0		101	66.2	120				
Surr: Dibromofluoromethane	571.2	0	500.0		114	79.5	121				
Surr: Toluene-d8	524.6	0	500.0		105	77	117				

Sample ID: **1310N83-001AMSD** Client ID: Units: **ug/L** Prep Date: **10/31/2013** Run No: **254904**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **183075** Analysis Date: **10/31/2013** Seq No: **5353717**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	654.1	50	500.0		131	60.2	159	638.6	2.40	19.2	
Benzene	566.0	50	500.0		113	70.2	138	512.9	9.84	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 Lm	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: 183075

Sample ID: **1310N83-001AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **10/31/2013** Run No: **254904**
BatchID: **183075** Analysis Date: **10/31/2013** Seq No: **5353717**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	607.7	50	500.0		122	70.1	133	535.4	12.6	20	
Toluene	585.4	50	500.0		117	70	139	530.6	9.82	20	
Trichloroethene	639.3	50	500.0		128	70.1	144	583.9	9.06	20	
Surr: 4-Bromofluorobenzene	504.5	0	500.0		101	66.2	120	507.1	0	0	
Surr: Dibromofluoromethane	562.0	0	500.0		112	79.5	121	571.2	0	0	
Surr: Toluene-d8	508.5	0	500.0		102	77	117	524.6	0	0	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: R254976

Sample ID: **MB-R254976**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **254976**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R254976**	Analysis Date: **10/31/2013**		Seq No: **5354253**	
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-R254976**	Client ID:				Units: **mg/L**	Prep Date:		Run No: **254976**	
SampleType: **LCS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R254976**	Analysis Date: **10/31/2013**		Seq No: **5354254**	
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)	0.5062	0.100	0.5000		101	85	115				

Sample ID: **1310O45-001DMS**	Client ID: **13303-MW-4A**				Units: **mg/L**	Prep Date:		Run No: **254976**	
SampleType: **MS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R254976**	Analysis Date: **10/31/2013**		Seq No: **5354257**	
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)	0.2789	0.100	0.5000	0.06020	43.7	80	120				S

Sample ID: **1310O45-001DMSD**	Client ID: **13303-MW-4A**				Units: **mg/L**	Prep Date:		Run No: **254976**	
SampleType: **MSD**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**			BatchID: **R254976**	Analysis Date: **10/31/2013**		Seq No: **5354259**	
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)	0.2731	0.100	0.5000	0.06020	42.6	80	120	0.2789	2.10	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		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: R255057

Sample ID: **MB-R255057**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**	
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356074**	
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-R255057**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**	
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356073**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	25.26	1.00	25.00		√ 101	90	110			

Sample ID: **1310M92-001GMS**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**	
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356089**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	28.40	1.00	25.00	2.731	√ 103	80	120			

Sample ID: **1310M92-001GMSD**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**	
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356091**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit Qual
Organic Carbon, Total	28.45	1.00	25.00	2.731	√ 103	80	120	28.40	√ 0.176	20

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310O45

ANALYTICAL QC SUMMARY REPORT

BatchID: R255099

Sample ID: **MB-R255099** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356789**

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-R255099** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356788**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.105	0.25	5.000		102	90	110				
Sulfate	23.60	1.0	25.00		94.4	90	110				

Sample ID: **1310N60-007EMS** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.485	0.25	5.000	0.1559	107	90	110				
Sulfate	27.34	1.0	25.00	2.739	98.4	90	110				

Sample ID: **1310N60-007EMSD** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356802**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.561	0.25	5.000	0.1559	108	90	110	5.485	1.37	20	
Sulfate	27.68	1.0	25.00	2.739	99.7	90	110	27.34	1.23	20	

Qualifiers:

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

Brown AND Caldwell : LABORATORY DATA VERIFICATION FORM

1. PROJECT INFORMATION

Today's Date: 11-20-13

Project Number: 141054 Project Name/Client: Hillshire Farms

Project Manager: T. Reifenberger Sampled By: _____

Laboratory: AES Order No.: 1310N60

2. SAMPLE INFORMATION

Purpose of sampling: Semiannual Sampling

Total number of samples: 11

☑ Groundwater: 8 ☐ Soil: _____ ☐ Soil Gas: _____ ☑ Trip Blank: 1

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

☐ Drinking water: _____ ☐ Air: _____ ☐ Other: _____ ☑ Equip Blank: 2

Analyses requested: VOCs, methane, TOC, Ferrous Iron, Nitrate/Sulfate

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: 3.5°C

☑ 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: Trip blank included but not on COC - No further action required

☑ 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)

No Actions Required

(Rev 3/14/13 - SEJ)

Signature of Data Verifier

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 06, 2013

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: 1310N60

Analytical Environmental Services, Inc. received 11 samples on 10/29/2013 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 07/01/13-06/30/14.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Tara Esbeck

Tara Esbeck
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1310160

Date: 10/28/13 Page ____ of ____

COMPANY	ADDRESS
Brown and Caldwell	990 Hammond Dr, Suit 400 Atlanta, GA 30328
PHONE: (770) 394-2997	FAX:
SAMPLED BY: Juan Nunez, George Skalg	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	VOCs	Methane	TOC	Ferrous Iron	NO3 Sulfate	REMARKS	No # of Containers
							PRESERVATION (See codes)						
							H+I	H+S	H	I	I		
1	13301-MW-11	10/28/13	1400	X		GW	X						2
2	13301-MW-20	10/28/13	1105	X		GW	X						2
3	13301-MW-2	10/28/13	1425	X		GW	X						2
4	13301-EB	10/28/13	1500	X		GW	X						2
5	13302-MW-4b	10/29/13	1020	X		GW	X						2
6	13302-OW-74a	10/29/13	1025	X		GW	X						2
7	13302-MW-6	10/29/13	0835	X		GW	X	X	X	X	X		7
8	13302-MW-12	10/29/13	1410	X		GW	X	X	X	X	X		7
9	13302-OW-72a	10/29/13	1410	X		GW	X						2
10	13302-EB	10/29/13	1330	X		GW	X						2
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:	10/29/13 1620	1: NC	10.29.13 4:20 pm
2: NC	10.29.13 4.55 pm	2:	10/29/13 4:55
3:		3:	

PROJECT INFORMATION

PROJECT NAME: Hillshire Farms
PROJECT #: 141054
SITE ADDRESS: Smyrna, GA
SEND REPORT TO: Trish Reifenberger
INVOICE TO: (IF DIFFERENT FROM ABOVE) Treifenberger@brwncald.com
QUOTE #: PO#:

RECEIPT

Total # of Containers: 30

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: 6-Nov-13

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab ID: 1310N60

Case Narrative

Sample Receiving Nonconformance:

A Trip Blank was provided but not listed on the Chain of Custody. Trip blank analyzed at no cost to the client.

Analytical Environmental Services, Inc **Date:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-11
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 2:00:00 PM
Lab ID:	1310N60-001	**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	182977	1	10/30/2013 10:18	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
1,4-Dichlorobenzene	5.9	5.0		ug/L	182977	1	10/30/2013 10:18	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 10:18	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 10:18	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Chlorobenzene	37	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
cis-1,2-Dichloroethene	45	5.0		ug/L	182977	1	10/30/2013 10:18	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 10:18	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-11
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 2:00:00 PM ✓
Lab ID:	1310N60-001	**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	182977	1	10/30/2013 10:18	AK
Tetrachloroethene	5.7	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Trichloroethene	10	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:18	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 10:18	AK
Surr: 4-Bromofluorobenzene	82.3	66.2-120		%REC	182977	1	10/30/2013 10:18	AK
Surr: Dibromofluoromethane	109	79.5-121		%REC	182977	1	10/30/2013 10:18	AK
Surr: Toluene-d8	98.6	77-117		%REC	182977	1	10/30/2013 10:18	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-20
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 11:05:00 AM
Lab ID:	1310N60-002	**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	182977	1	10/30/2013 10:46	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 10:46	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 10:46	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 10:46	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-20
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 11:05:00 AM
Lab ID:	1310N60-002	**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	182977	1	10/30/2013 10:46	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 10:46	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 10:46	AK
Surr: 4-Bromofluorobenzene	80.4	66.2-120		%REC	182977	1	10/30/2013 10:46	AK
Surr: Dibromofluoromethane	112	79.5-121		%REC	182977	1	10/30/2013 10:46	AK
Surr: Toluene-d8	99.7	77-117		%REC	182977	1	10/30/2013 10:46	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-2
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 2:25:00 PM
Lab ID:	1310N60-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	8.5	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,1-Dichloroethene	8.6	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 11:14	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 11:14	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
cis-1,2-Dichloroethene	43	5.0		ug/L	182977	1	10/30/2013 11:14	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 11:14	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-MW-2
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 2:25:00 PM
Lab ID:	1310N60-003	**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	182977	1	10/30/2013 11:14	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Trichloroethene	13	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:14	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 11:14	AK
Surr: 4-Bromofluorobenzene	78.6	66.2-120		%REC	182977	1	10/30/2013 11:14	AK
Surr: Dibromofluoromethane	110	79.5-121		%REC	182977	1	10/30/2013 11:14	AK
Surr: Toluene-d8	94.9	77-117		%REC	182977	1	10/30/2013 11:14	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 3:00:00 PM
Lab ID:	1310N60-004	**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	182977	1	10/30/2013 11:42	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 11:42	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 11:42	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 11:42	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13301-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/28/2013 3:00:00 PM
Lab ID:	1310N60-004	**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	182977	1	10/30/2013 11:42	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 11:42	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 11:42	AK
Surr: 4-Bromofluorobenzene	79.1	66.2-120		%REC	182977	1	10/30/2013 11:42	AK
Surr: Dibromofluoromethane	108	79.5-121		%REC	182977	1	10/30/2013 11:42	AK
Surr: Toluene-d8	96.8	77-117		%REC	182977	1	10/30/2013 11:42	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-4B
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 10:20:00 AM
Lab ID:	1310N60-005	**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	182977	1	10/30/2013 12:09	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 12:09	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 12:09	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 12:09	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-4B
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 10:20:00 AM ✓
Lab ID:	1310N60-005	**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	182977	1	10/30/2013 12:09	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:09	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 12:09	AK
Surr: 4-Bromofluorobenzene	80.2	66.2-120		%REC	182977	1	10/30/2013 12:09	AK
Surr: Dibromofluoromethane	105	79.5-121		%REC	182977	1	10/30/2013 12:09	AK
Surr: Toluene-d8	94.3	77-117		%REC	182977	1	10/30/2013 12:09	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-OW-74A
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 10:25:00 AM
Lab ID:	1310N60-006	**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	182977	1	10/30/2013 12:37	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 12:37	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 12:37	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
cis-1,2-Dichloroethene	180	5.0		ug/L	182977	1	10/30/2013 12:37	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 12:37	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-OW-74A
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 10:25:00 AM
Lab ID:	1310N60-006	**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	182977	1	10/30/2013 12:37	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Trichloroethene	13	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 12:37	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 12:37	AK
Surr: 4-Bromofluorobenzene	80.1	66.2-120		%REC	182977	1	10/30/2013 12:37	AK
Surr: Dibromofluoromethane	107	79.5-121		%REC	182977	1	10/30/2013 12:37	AK
Surr: Toluene-d8	96.1	77-117		%REC	182977	1	10/30/2013 12:37	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-6
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 8:35:00 AM
Lab ID:	1310N60-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	3.21	1.00		mg/L	R255057	1	11/01/2013 12:27	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 13:05	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 13:05	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Chlorobenzene	6.2	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 13:05	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-6
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 8:35:00 AM ✓
Lab ID:	1310N60-007	**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	182977	1	10/30/2013 13:05	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Styrene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:05	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 13:05	AK
Surr: 4-Bromofluorobenzene	81.5	66.2-120		%REC	182977	1	10/30/2013 13:05	AK
Surr: Dibromofluoromethane	106	79.5-121		%REC	182977	1	10/30/2013 13:05	AK
Surr: Toluene-d8	94.8	77-117		%REC	182977	1	10/30/2013 13:05	AK
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R255099	1	10/30/2013 11:32	GR
Sulfate	2.7	1.0		mg/L	R255099	1	10/30/2013 11:32	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	130	4		ug/L	182982	1	10/30/2013 15:18	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	1.06	1.00		mg/L	R254975	10	10/29/2013 17:45	AB

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-12
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 2:10:00 PM
Lab ID:	1310N60-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	5.17	1.00		mg/L	R255057	1	11/01/2013 12:55	GR
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,1-Dichloroethane	5.0	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 13:33	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 13:33	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
cis-1,2-Dichloroethene	49	5.0		ug/L	182977	1	10/30/2013 13:33	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 13:33	AK
Isopropylbenzene	10	5.0		ug/L	182977	1	10/30/2013 13:33	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-MW-12
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 2:10:00 PM
Lab ID:	1310N60-008	**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	182977	1	10/30/2013 13:33	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Styrene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 13:33	AK
Vinyl chloride	4.0	2.0		ug/L	182977	1	10/30/2013 13:33	AK
Surr: 4-Bromofluorobenzene	95.9	66.2-120		%REC	182977	1	10/30/2013 13:33	AK
Surr: Dibromofluoromethane	119	79.5-121		%REC	182977	1	10/30/2013 13:33	AK
Surr: Toluene-d8	101	77-117		%REC	182977	1	10/30/2013 13:33	AK
ION SCAN SW9056A								
Nitrate	BRL	0.25		mg/L	R255099	1	10/30/2013 11:47	GR
Sulfate	10	1.0		mg/L	R255099	1	10/30/2013 11:47	GR
GC Analysis of Gaseous Samples SOP-RSK 175				**(RSK175)**				
Methane	170	4		ug/L	182982	1	10/30/2013 15:24	SH
Ferrous Iron SM3500-Fe-B								
Iron, as Ferrous (Fe+2)	26.4	2.50		mg/L	R254975	25	10/29/2013 17:45	AB

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-OW-72A
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 2:10:00 PM
Lab ID:	1310N60-009	**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	182977	1	10/30/2013 14:28	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,1-Dichloroethane	14	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2-Dichlorobenzene	18	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 14:28	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 14:28	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
cis-1,2-Dichloroethene	1800	100		ug/L	182977	20	10/31/2013 10:31	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 14:28	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-OW-72A
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 2:10:00 PM
Lab ID:	1310N60-009	**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	182977	1	10/30/2013 14:28	AK
Tetrachloroethene	15	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
trans-1,2-Dichloroethene	10	5.0		ug/L	182977	1	10/30/2013 14:28	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Trichloroethene	49	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:28	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 14:28	AK
Surr: 4-Bromofluorobenzene	79.4	66.2-120		%REC	182977	1	10/30/2013 14:28	AK
Surr: 4-Bromofluorobenzene	80.6	66.2-120		%REC	182977	20	10/31/2013 10:31	AK
Surr: Dibromofluoromethane	110	79.5-121		%REC	182977	20	10/31/2013 10:31	AK
Surr: Dibromofluoromethane	109	79.5-121		%REC	182977	1	10/30/2013 14:28	AK
Surr: Toluene-d8	96.5	77-117		%REC	182977	1	10/30/2013 14:28	AK
Surr: Toluene-d8	96.3	77-117		%REC	182977	20	10/31/2013 10:31	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 1:30:00 PM
Lab ID:	1310N60-010	**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	182977	1	10/30/2013 14:56	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 14:56	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 14:56	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 14:56	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	13302-EB
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013 1:30:00 PM
Lab ID:	1310N60-010	**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	182977	1	10/30/2013 14:56	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 14:56	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 14:56	AK
Surr: 4-Bromofluorobenzene	79.5	66.2-120		%REC	182977	1	10/30/2013 14:56	AK
Surr: Dibromofluoromethane	105	79.5-121		%REC	182977	1	10/30/2013 14:56	AK
Surr: Toluene-d8	96.8	77-117		%REC	182977	1	10/30/2013 14:56	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013
Lab ID:	1310N60-011	**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	182977	1	10/30/2013 15:24	AK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,1,2-Trichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,1-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,1-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2-Dibromoethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2-Dichloroethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,2-Dichloropropane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,3-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
1,4-Dichlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
2-Butanone	BRL	50		ug/L	182977	1	10/30/2013 15:24	AK
2-Hexanone	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
4-Methyl-2-pentanone	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
Acetone	BRL	50		ug/L	182977	1	10/30/2013 15:24	AK
Benzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Bromodichloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Bromoform	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Bromomethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Carbon disulfide	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Carbon tetrachloride	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Chlorobenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Chloroethane	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
Chloroform	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Chloromethane	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Cyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Dibromochloromethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Dichlorodifluoromethane	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
Ethylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Freon-113	BRL	10		ug/L	182977	1	10/30/2013 15:24	AK
Isopropylbenzene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
m,p-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Methyl acetate	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Methyl tert-butyl ether	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Methylcyclohexane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Methylene chloride	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
o-Xylene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK

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:** 6-Nov-13

Client:	BROWN AND CALDWELL	**Client Sample ID:**	TRIP BLANK
Project Name:	Hill Shire Farms	**Collection Date:**	10/29/2013
Lab ID:	1310N60-011	**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	182977	1	10/30/2013 15:24	AK
Tetrachloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Toluene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Trichloroethene	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Trichlorofluoromethane	BRL	5.0		ug/L	182977	1	10/30/2013 15:24	AK
Vinyl chloride	BRL	2.0		ug/L	182977	1	10/30/2013 15:24	AK
Surr: 4-Bromofluorobenzene	77.8	66.2-120		%REC	182977	1	10/30/2013 15:24	AK
Surr: Dibromofluoromethane	102	79.5-121		%REC	182977	1	10/30/2013 15:24	AK
Surr: Toluene-d8	95.4	77-117		%REC	182977	1	10/30/2013 15:24	AK

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 1310N60

Checklist completed by _____ 10/29/13
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? (4°C±2)*	Yes ✓	No __	

Cooler #1 3.5 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

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

Adjusted? _____ Checked by TM

Sample Condition: Good ✓ Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project: Hill Shire Farms
Lab Order: 1310N60

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1310N60-001A	13301-MW-11	10/28/2013 2:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-002A	13301-MW-20	10/28/2013 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-003A	13301-MW-2	10/28/2013 2:25:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-004A	13301-EB	10/28/2013 3:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-005A	13302-MW-4B	10/29/2013 10:20:00AM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-006A	13302-OW-74A	10/29/2013 10:25:00AM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-007A	13302-MW-6	10/29/2013 8:35:00AM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-007B	13302-MW-6	10/29/2013 8:35:00AM	Groundwater	GC Analysis of Gaseous Samples		10/29/2013	10/30/2013
1310N60-007C	13302-MW-6	10/29/2013 8:35:00AM	Groundwater	Total Organic Carbon (TOC)			11/01/2013
1310N60-007D	13302-MW-6	10/29/2013 8:35:00AM	Groundwater	Ferrous Iron			10/29/2013
1310N60-007E	13302-MW-6	10/29/2013 8:35:00AM	Groundwater	ION SCAN			10/30/2013
1310N60-008A	13302-MW-12	10/29/2013 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-008B	13302-MW-12	10/29/2013 2:10:00PM	Groundwater	GC Analysis of Gaseous Samples		10/29/2013	10/30/2013
1310N60-008C	13302-MW-12	10/29/2013 2:10:00PM	Groundwater	Total Organic Carbon (TOC)			11/01/2013
1310N60-008D	13302-MW-12	10/29/2013 2:10:00PM	Groundwater	Ferrous Iron			10/29/2013
1310N60-008E	13302-MW-12	10/29/2013 2:10:00PM	Groundwater	ION SCAN			10/30/2013
1310N60-009A	13302-OW-72A	10/29/2013 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-009A	13302-OW-72A	10/29/2013 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/31/2013
1310N60-010A	13302-EB	10/29/2013 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013
1310N60-011A	TRIP BLANK	10/29/2013 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/29/2013	10/30/2013

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: 182977

Sample ID: **MB-182977** Client ID:
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349721**

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 Lm	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: 182977

Sample ID: **MB-182977** Client ID: Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349721**

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	40.73	0	50.00		81.5	66.2	120				
Surr: Dibromofluoromethane	50.66	0	50.00		101	79.5	121				
Surr: Toluene-d8	45.78	0	50.00		91.6	77	117				

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: 182977

Sample ID: **LCS-182977** Client ID: Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349722**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	54.59	5.0	50.00		109	63.1	140				
Benzene	49.39	5.0	50.00		98.8	74.2	129				
Chlorobenzene	54.29	5.0	50.00		109	70	129				
Toluene	51.10	5.0	50.00		102	74.2	129				
Trichloroethene	57.33	5.0	50.00		115	71.2	135				
Surr: 4-Bromofluorobenzene	50.09	0	50.00		100	66.2	120				
Surr: Dibromofluoromethane	54.37	0	50.00		109	79.5	121				
Surr: Toluene-d8	49.20	0	50.00		98.4	77	117				

Sample ID: **1310M80-004AMS** Client ID: Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349724**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	63.26	5.0	50.00		127	60.2	159				
Benzene	54.71	5.0	50.00		109	70.2	138				
Chlorobenzene	59.49	5.0	50.00		119	70.1	133				
Toluene	57.40	5.0	50.00		115	70	139				
Trichloroethene	63.82	5.0	50.00		128	70.1	144				
Surr: 4-Bromofluorobenzene	50.05	0	50.00		100	66.2	120				
Surr: Dibromofluoromethane	56.28	0	50.00		113	79.5	121				
Surr: Toluene-d8	49.53	0	50.00		99.1	77	117				

Sample ID: **1310M80-004AMSD** Client ID: Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349725**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	63.95	5.0	50.00		128	60.2	159	63.26	1.08	19.2	
Benzene	57.15	5.0	50.00		114	70.2	138	54.71	4.36	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	Spi... outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: 182977

Sample ID: **1310M80-004AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254742**
BatchID: **182977** Analysis Date: **10/29/2013** Seq No: **5349725**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	60.13	5.0	50.00		120	70.1	133	59.49	1.07	20	
Toluene	57.23	5.0	50.00		114	70	139	57.40	0.297	20	
Trichloroethene	65.18	5.0	50.00		130	70.1	144	63.82	2.11	20	
Surr: 4-Bromofluorobenzene	50.09	0	50.00		100	66.2	120	50.05	0	0	
Surr: Dibromofluoromethane	56.27	0	50.00		113	79.5	121	56.28	0	0	
Surr: Toluene-d8	49.56	0	50.00		99.1	77	117	49.53	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		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: 182982

Sample ID: **MB-182982** Client ID:
SampleType: **MBLK** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254865**
BatchID: **182982** Analysis Date: **10/30/2013** Seq No: **5351676**

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-182982** Client ID:
SampleType: **LCS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254865**
BatchID: **182982** Analysis Date: **10/30/2013** Seq No: **5351678**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	138.0	4	200.0		69.0	45.2	115				

Sample ID: **LCSD-182982** Client ID:
SampleType: **LCSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254865**
BatchID: **182982** Analysis Date: **10/30/2013** Seq No: **5351680**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	134.7	4	200.0		67.4	45.2	115	138.0	2.38	20	

Sample ID: **1310L09-002CMS** Client ID:
SampleType: **MS** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254865**
BatchID: **182982** Analysis Date: **10/30/2013** Seq No: **5351704**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	127.5	4	200.0		63.8	41.1	115				

Sample ID: **1310L09-002CMSD** Client ID:
SampleType: **MSD** TestCode: **GC Analysis of Gaseous Samples SOP-RSK 175**
Units: **ug/L** Prep Date: **10/29/2013** Run No: **254865**
BatchID: **182982** Analysis Date: **10/30/2013** Seq No: **5351707**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Methane	135.1	4	200.0		67.6	41.1	115	127.5	5.79	20	

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: R254975

Sample ID: **MB-R254975**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **254975**	
SampleType: **MBLK**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**				BatchID: **R254975**		Analysis Date: **10/29/2013**		Seq No: **5354230**	
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-R254975**	Client ID:					Units: **mg/L**		Prep Date:		Run No: **254975**	
SampleType: **LCS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**				BatchID: **R254975**		Analysis Date: **10/29/2013**		Seq No: **5354231**	
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)	0.5062	0.100	0.5000		101	85	115				

Sample ID: **1310N60-007DMS**	Client ID: **13302-MW-6**					Units: **mg/L**		Prep Date:		Run No: **254975**	
SampleType: **MS**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**				BatchID: **R254975**		Analysis Date: **10/29/2013**		Seq No: **5354234**	
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)	6.069	1.00	5.000	1.062	100	80	120				

Sample ID: **1310N60-007DMSD**	Client ID: **13302-MW-6**					Units: **mg/L**		Prep Date:		Run No: **254975**	
SampleType: **MSD**	TestCode: **Ferrous Iron**	**SM3500-Fe-B**				BatchID: **R254975**		Analysis Date: **10/29/2013**		Seq No: **5354235**	
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)	6.098	1.00	5.000	1.062	101	80	120	6.069	0.477	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		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: R255057

Sample ID: **MB-R255057**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**
SampleType: **MBLK**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356074**

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-R255057**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**
SampleType: **LCS**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356073**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	25.26	1.00	25.00		101	90	110				

Sample ID: **1310M92-001GMS**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**
SampleType: **MS**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356089**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.40	1.00	25.00	2.731	103	80	120				

Sample ID: **1310M92-001GMSD**	Client ID:					Units: **mg/L**	Prep Date:		Run No: **255057**
SampleType: **MSD**	TestCode: **Total Organic Carbon (TOC) SW9060A**					BatchID: **R255057**	Analysis Date: **11/01/2013**		Seq No: **5356091**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Organic Carbon, Total	28.45	1.00	25.00	2.731	103	80	120	28.40	0.176	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
RL	Low Reporting Limit	S	Spike Recovery outside limits due to matrix		

Analytical Environmental Services, Inc

Date: 6-Nov-13

Client: BROWN AND CALDWELL
Project Name: Hill Shire Farms
Workorder: 1310N60

ANALYTICAL QC SUMMARY REPORT

BatchID: R255099

Sample ID: **MB-R255099** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MBLK** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356789**

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-R255099** Client ID: Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **LCS** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356788**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.105	0.25	5.000		102	90	110				
Sulfate	23.60	1.0	25.00		94.4	90	110				

Sample ID: **1310N60-007EMS** Client ID: **13302-MW-6** Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MS** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.485	0.25	5.000	0.1559	107	90	110				
Sulfate	27.34	1.0	25.00	2.739	98.4	90	110				

Sample ID: **1310N60-007EMSD** Client ID: **13302-MW-6** Units: **mg/L** Prep Date: Run No: **255099**
SampleType: **MSD** TestCode: **ION SCAN SW9056A** BatchID: **R255099** Analysis Date: **10/30/2013** Seq No: **5356802**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Nitrate	5.561	0.25	5.000	0.1559	108	90	110	5.485	1.37	20	
Sulfate	27.68	1.0	25.00	2.739	99.7	90	110	27.34	1.23	20	

Qualifiers:

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

Appendix E: Laboratory Stipulation Letter

AES

Analytical Environmental Services, Inc.,
3785 Presidential Parkway
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) 3785 Presidential Parkway, NE 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, 2013
Expires:	June 30, 2014

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 11, 2013