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September 25, 2013

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Subject: Corrective Action Plan
Former Manchester Tank Company (HSI #10765)
Cedartown, Polk County, Georgia

Dear Mr. Williams:

On behalf of Textron Inc., CDM Smith Inc. is submitting the enclosed Corrective Action Plan to meet the requirements of the Georgia Voluntary Remediation Program for the Former Manchester Tank Company (HSI #10765). If you have any questions concerning this plan, please do not hesitate to contact me at (404) 720-1379 or by email at duffeyjt@cdmsmith.com.

Sincerely,

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Associate
CDM Smith Inc.

cc: Andrew Romanek, CDM Smith Inc.
Jamie Schiff, Textron Inc.

Enclosure



CORRECTIVE ACTION PLAN

Former Manchester Tank Company
Cedartown, Polk County, Georgia

Prepared for Textron Inc.

September 2013



Document Certification

Former Manchester Tank Company

HSI No.: 10765

Cedartown, Polk County, Georgia

Corrective Action Plan

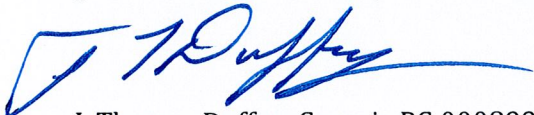
September 2013

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J. Thomas Duffey
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CDM Smith Inc.

I certify that I am a qualified groundwater scientist who has received a baccalaureate or postgraduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration, professional certifications, or completion of accredited university courses that enable that individual to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport.



J. Thomas Duffey, Georgia PG 000899
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Section 1

Introduction

This Corrective Action Plan (CAP) has been prepared by CDM Smith Inc. (CDM Smith) for Textron Inc. (Textron) to meet the requirements of the Georgia Voluntary Remediation Program (VRP) for the Former Manchester Tank Company (Manchester Tank), Hazardous Site Inventory (HSI) Number 10765. The Georgia Environmental Protection Division (EPD) accepted this site into the VRP on June 4, 2010, and approved the Preliminary Remediation Plan (Gallet & Associates, Inc., April 23, 2010) submitted by Trinity Industries, Inc. (Trinity). Since that time, Textron, Inc. (Textron) has assumed the responsibility as the lead VRP participant, and the future actions identified in this CAP supersede those in the previous remediation plan. This CAP is based on additional data collected during investigations conducted by CDM Smith starting in 2012.

Much of the background information regarding the site that was provided in the 2009 Preliminary Remediation Plan remains unchanged and it should be referenced for the following:

- Site location and description;
- Site operation history;
- Summary of previous investigations (2001-2009);
- Water Use Survey reporting requirements; and
- Regional geology and hydrogeology.

The remainder of this introductory section provides a summary of the results from the 2009 Preliminary Remediation Plan implementation, a timeline of regulatory-related events since Textron assumed VRP responsibility, and additional details regarding surrounding land use. Environmental conditions are described in **Section 2**. The site conceptual model is provided in **Section 3**. The proposed Risk Reduction Standards (RRSs) for this site are presented in **Section 4**. An evaluation of remedial technologies is included in **Section 5**. Details regarding the selected corrective action including: technology performance expectations, cost estimates for implementation, the expected timeframe for achieving the RRSs, and submittal of a Compliance Status Report (CSR) are discussed in **Section 6**.

1.1 Preliminary Remediation Plan

The corrective actions presented in the 2009 Preliminary Remediation Plan included ozone injection to remediate groundwater. A pilot test using ozone injection was performed at the site in 2011, and performance monitoring during this test did not show promising results. Total volatile organic compound (VOC) concentrations were not significantly reduced, and several monitoring wells showed increased concentrations. Based on operating logs from the pilot test, CDM Smith believes that the high injection pressures required to achieve injection during the pilot test may have displaced the VOCs in groundwater. Because of the high injection pressures that would be required to inject ozone and the potential for expanding the area of groundwater requiring remediation, CDM Smith has concluded that additional remedial technologies should be considered.

1.2 Recent Regulatory Interaction Activities

A meeting was held with representatives of EPD on March 28, 2012 to discuss changing the VRP applicant from Trinity to Textron. Since that time, the following regulatory interaction events have occurred:

- April 2, 2012 – An Easement and Right to Implement an Environmental Covenant was filed for the property with the Polk County Clerk of Superior Court. The Covenant prohibits residential use of the property, use of groundwater, and requires implementation of an EPD-approved CAP.
- June 1, 2012 – A Semi-Annual Voluntary Remediation Program Progress Report was submitted. This report included a summary of investigation activities initiated by CDM Smith in May 2012 and an updated VRP application with financial assurance.
- November 15, 2012 – A meeting was held with representatives of EPD to review recent investigation results, the current site conceptual model, and additional data gaps. The schedule for completing investigation activities and submitting a CAP was also discussed.
- November 30, 2012 – A Semi-Annual Voluntary Remediation Program Progress Report was submitted. This report memorialized much of the information discussed at the November 15th meeting, including the investigation results and remaining data gaps. This report also included an updated schedule, noting September 2013 as the planned CAP submittal date.
- June 17, 2013 – A Semi-Annual Voluntary Remediation Program Progress Report was submitted. During the associated reporting period, additional offsite access was obtained and groundwater investigation activities were completed, delineating VOCs in groundwater according to the VRP requirements. Soil vapor intrusion analysis and sampling were also performed, and additional soil sampling and statistical analyses were completed for metals delineation purposes.

1.3 Surrounding Land Use

The immediate site vicinity is mixed industrial/residential with the Missouri Machine and Plow, LLC (Missouri M&P) site immediately to the east. Missouri M&P was listed on the HSI (HSI No. 10868) during August 2007. In November 2010, EPD accepted a Prospective Purchaser Compliance Status Report for the Missouri M&P site that relieved the site from further response actions related to metals in soil. VOCs in groundwater on Missouri M&P were assumed to have originated from Manchester Tank.

The Hon Company LLC (Hon) is located to the immediate west of the Manchester Tank (**Figure 1-1**). The Hon Company manufactures office furniture and currently uses the Manchester Tank warehouse for storage. Manchester Tank no longer has operations at the site. The Hon site was listed on the HSI (HSI No. 10796) in 2005 for an isopropylbenzene (cumene) release, which has been resolved according to Hon.

Immediately to the south is the former location of Zartic, Inc. (Zartic), a meat processor. The Zartic facility burned to the ground several years ago, and as described further in Section 2.1.3, the nearest groundwater supply well is located on this property. A correctional facility that is no longer in use is located north of the site.

Residential properties are located east of the Missouri M&P site, and Cedar Creek lies beyond the residential area. Additional sensitive receptors such as schools, day care facilities, and hospitals are located to the east beyond Cedar Creek. In addition, a fourth contamination site, The Henkel Corporation Site, is located east of the site on the east bank of Cedar Creek. This site is managed under a Corrective Action Consent Order (No. EPD-HW-1048). This site is undergoing corrective action for VOCs in groundwater.

Access to Manchester Tank is restricted by fencing, but the gates generally remain open because Hon uses the facility for storage and operates 24-hours per day. Access to Missouri M&P is controlled by fences as well.

Section 2

Site Characterization

Characterization activities at the site have primarily focused on delineating the horizontal and vertical extents of VOCs in groundwater and metals in soil. For contaminant delineation purposes, the HSRA Type 1 RRSs are included in the data tables and figures of this section; however, the RRSs proposed for corrective action are discussed in Section 4. The characterization results for all CDM Smith activities are summarized below.

2.1 Groundwater Investigations

2.1.1 Monitoring Well Installation and Sampling

Since starting work in 2012, CDM Smith has performed several phases of work involving groundwater monitoring well installation and sampling to determine VOC delineation horizontally, vertically in bedrock groundwater, and off site.

- **June – July 2012**
 - Thirteen new wells were installed on site and off site. These wells include MW-30A, -31C, -32B, -33A, -34B, -35D, -36C, -37C, -38C, -39C, -40C, -41C, and -42C. All of these wells are located on the Missouri M&P property except for MW-41C and MW-42C, which are Manchester Tank wells.
 - Water levels and groundwater samples were collected from the wells listed above and previously existing wells on both the Manchester Tank and the Missouri M&P properties.
- **September - November 2012**
 - Ten new wells were installed on site and off site. These wells include:
 - Manchester Tank site: MW-43D and MW-51C
 - Missouri M&P site: MW-44C, -45C, and -52C
 - Offsite properties and right-of-ways east of Missouri M&P: MW-46C, -47C, -48C, -49C, and -50C
 - Groundwater sampling was performed for the new wells installed in the phase and water level measurements were collected from all onsite and offsite wells.
- **May 2013**
 - Two additional wells (MW-53C and MW-54C) were installed off site on the Hon property and sampled.
 - An additional well (MW-55D) was installed and sampled on the Missouri M&P site.

The above well locations, in addition to previously installed wells, are shown on **Figure 2-1**. **Table 2-1** provides a construction summary for all wells. Boring logs for the CDM Smith-installed wells are presented in **Appendix A**.

2.1.2 Site Hydrogeology

The site hydrogeology has been classified by CDM Smith into four units: A, B, C, and D. Unit A is the relatively thin, unconsolidated soil residuum and is typically unsaturated but may contain groundwater under water table conditions where it is thick enough. Unit A averages approximately 12 feet in thickness. Unit B is the uppermost bedrock and typically contains groundwater under water table conditions. Unit B limestone has few fractures, which tend to be thin and produce little groundwater. Unit C is similar to Unit B except that the fractures tend to be less frequent and groundwater in Unit C is presumed to be confined to some extent. Unit D is the deeper limestone bedrock. The letter designation following each monitoring well number corresponds to the stratigraphic unit in which it is screened.

The potentiometric surface from water levels collected in November 2012 for Unit A/B and Unit C are presented on **Figure 2-2** and **Figure 2-3**, respectively. The direction of groundwater flow is to the northeast, toward Cedar Creek.

2.1.3 Surrounding Groundwater Use

CDM Smith identified groundwater wells in the site vicinity during a water use survey update that was performed in 2012. This update included a “windshield” survey and using data from the USGS National Water Information System. As shown on **Figure 2-4**, ten water wells have been located near the site with the Zartic well (GG71) to the south being the closest well. The Zartic well is the only well within 0.5 miles of the site. This well is no longer in use because the Zartic facility burned down and the structure is no longer present, although the well house remains. Considering that the direction of groundwater flow is to the northeast and that Cedar Creek is located between the site and many of the groundwater wells, groundwater flow from the site would not be expected to reach any of the identified wells.

The City of Cedartown obtains its water supply from Big Spring, a natural limestone spring, located more than one mile east of the site, and the municipal supply is available to the entire site vicinity. Big Spring produces approximately 12 million gallons per day (mgd) of water with approximately 2 mgd serving the water supply system. The spring water is treated prior to distribution. Groundwater from the site would not be expected to impact this spring because it is in a cross-gradient flow direction relative to the site.

2.1.4 Groundwater VOC analyses

A detection summary of groundwater VOCs for all groundwater sampling events since June 2012 is presented on **Table 2-2**. The corresponding laboratory reports are provided in **Appendix B**. Table 2-2 also shows each compound’s Type 1, residential land use, RRS. The VOCs that exceed the Type 1 RRSs for groundwater are:

- 1,1,1-Trichloroethane (1,1,1-TCA);
- 1,1,2-Trichloroethane (1,1,2-TCA);
- 1,1-Dichloroethene (1,1-DCE);
- 1,2-Dichloroethane (1,1-DCA);
- cis-1,2-Dichloroethene (cis-1,2-DCE);
- trans-1,2-Dichloroethene (trans-1,2-DCE);
- Tetrachloroethene (PCE);
- Trichloroethene (TCE); and
- Vinyl Chloride (VC).

2.1.5 Horizontal VOC Delineation

TCE has the highest number of Type 1 RRS exceedances, is generally detected at higher concentrations than the other VOCs, and is present at all locations exceeding the Type 1 RRSs. As such, it was selected for the presentation of groundwater VOCs. **Figure 2-5** includes the Unit A/B potentiometric surface and distribution of TCE in groundwater. As shown in Figure 2-5, the TCE plume in groundwater appears to be split into a north flow component toward MW-18B and a northeast flow component toward MW-5B. The source of VOCs in groundwater has been assumed to be the former disposal pit located on Manchester Tank, and the recent investigation data supports this assumption. The November 2012 water levels indicate groundwater mounding in the vicinity of MW-3B, and the resulting groundwater flow patterns and TCE distribution correlate well. The extent of TCE in Unit A/B is limited to the Manchester Tank and Missouri M&P properties, with the exception of a small area near GP-2A.

TCE in Unit C/D groundwater (**Figure 2-6**) follows a similar pattern as Unit A/B groundwater except that the interpolated plume is shown as discontinuous. Whether this is true cannot be answered based on current data, although sufficient data are available to complete the delineation requirements and proceed with corrective action planning. Concentrations observed in MW-51C, for example, may be attributable to the former disposal pit or to a small onsite or offsite source near MW-51C. Despite the discontinuity, CDM Smith believes that horizontal delineation in Unit A/B is complete in all directions.

2.1.6 Vertical VOC Delineation

Vertical delineation was completed following installation of MW-55D to a depth of 450 feet. There have been no VOC detections in MW-35D or MW-55D. MW-43D is the only deep well that shows VOCs, and it is located in the source area. This data indicates that while some VOCs have migrated downward in the source area, they have not migrated horizontally within Unit D and the primary VOC migration zone in bedrock is in Unit B and Unit C.

2.2 Geophysical Surveys

To provide bedrock topography and identify potential preferential groundwater flow paths, geophysical surveys of the site were performed using a very low frequency electromagnetic instrument, ground penetrating radar, and seismic techniques. The geophysical survey transects and the interpreted top of bedrock elevations are shown on **Figure 2-7**. The geophysical surveys did not identify any fractures or preferential flow zones.

2.3 Soil Investigation

There are no detailed records of site operations at Manchester Tank; however, an unlined disposal pit was in use at the site sometime during its history. In September and October of 2001, a Limited Phase II Environmental Site Assessment performed at Manchester Tank found chromium, copper, lead, and TCE at levels in soil that exceeded the EPD Notification Concentrations (NCs). Clean closure remedial action at the site occurred in October 2001 and consisted of excavation and proper disposal of impacted soils. Approximately 373 tons of impacted soils were excavated, treated, and transported to a Subtitle D landfill. The results of confirmatory soil samples collected on the excavation sidewalls and the base of the excavation showed concentrations of constituents less than the NCs. The excavation was backfilled and compacted with native soils from the Cedartown area. Additional soil sampling performed in May and June 2007 demonstrated that that VOC concentrations at the site met Type 1-4 RRSs; however, metals in soil remained a delineation issue.

EPD requires that contaminants in soil be delineated to Type 1, residential land use, RRSs, or background, whichever is greater. Previous site investigations included laboratory metals analyses for soil on Manchester Tank, and several metals were found to exceed the Type 1 RRSs. **Table 2-3** shows the previous sample results (SB-1 through SB-9). The metals that exceeded the Type 1 RRS in soil are arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, vanadium, and zinc. Previous attempts to establish site-specific background metal concentrations using samples collected from Manchester Tank did not reduce the number of metals exceeding the Type 1 RRSs. However, most of the metals concentrations were low, and it appeared that many of these metal concentrations could have been associated with background.

Missouri M&P had also previously investigated metals in soil and concluded that the Missouri M&P metals results were background. EPD required no further action from Missouri M&P related to metals in soil. As a result, CDM Smith added the Missouri M&P soil data to the background database for Manchester Tank and developed revised background concentrations using a simplified approach whereby background equates to the average concentration plus two times the standard deviation. These revised background concentrations are included in Table 2-3, but use of these concentrations does not reduce the number of metals exceeding the Type 1 RRSs.

2.3.1 95% Confidence Upper Prediction Limit

CDM Smith conducted a more in-depth statistical analysis of the data to assess the background soil concentrations. The 95% confidence upper prediction limit (UPL95) was determined for the Manchester Tank background samples as an alternative background concentration. The UPL 95 values were calculated using ProUCL Version 4.1, which is a widely accepted method for calculating background by the U.S. Environmental Protection Agency and other state agencies. These results are also summarized in Table 2-3, and when compared to the Manchester Tank samples, several metals were eliminated from further evaluation based on the revised background concentrations. The metals that were retained as potentially exceeding the Type 1 RRSs include chromium and lead. Lead exceeded in only one sample. Cadmium was also retained because insufficient detections were available to support the UPL95 analysis.

2.3.2 Focused Sample Results and Conclusions

To further investigate the chromium, cadmium, and lead exceedances of the Type 1 RRSs in soil, CDM Smith developed a focused soil sampling program. **Figure 2-8** includes the historical sampling locations, the additional focused sampling locations (SB-10 through SB-18), and the locations exceeding the UPL95 background. A summary of results is presented in Table 2-3, and the corresponding laboratory report is provided as **Appendix C**.

Cadmium has had only two detections and only one, the 6-foot sample at SB-3, exceeds the Type 1 RRS. This same sample is also the only one where the lead concentration of 312 mg/kg exceeds the UPL95 background concentration and is approximately double any other lead result from the site. CDM Smith concluded that this sample was an outlier and, as a result, CDM Smith collected a sample intended to replicate the previous SB-3 sample to determine whether the result could be reproduced. The replicate sample from SB-11 was non-detect for cadmium, and lead was reported at 31.6 mg/kg, which is below the delineation criteria.

Ten additional soil samples were collected for chromium analyses. Four locations were selected to replicate the historical data. These locations included SB-10 through SB-13. Previous exceedances at SB-2 and SB-5 were not reproduced, while exceedances at SB-3 and SB-7 were reproduced. Several

additional soil samples were collected for further chromium delineation and assessment of background. **Figure 2-9** includes a soil chromium delineation map that shows the area estimated to exceed the Type 1 RRS. CDM Smith believes that the Type 1 RRS exceedances area is limited to the west because the elevation of the road is higher than the site, which would limit migration in the upgradient direction, and because site activities were not conducted on the roadway or beyond the west fence line.

2.4 Vapor Intrusion Investigation

For offsite residences in the neighborhood to the east of the site where VOCs in groundwater may be present, CDM Smith performed initial vapor intrusion analyses utilizing the EPA vapor intrusion screening level (VISL) calculator (Version 2.0, November 2012) and Johnson and Ettinger Model (JEM). Depending on which model and associated variants were used, TCE and VC had the potential to exceed carcinogenic and non-carcinogenic target risks to residential occupants based on vapor intrusion from groundwater.

Based on the results of the initial analyses, CDM Smith conducted soil gas sampling to better evaluate whether TCE and VC pose potential vapor intrusion risks. Soil gas sampling was performed at three locations, SG-1, -2, and -3 (**Figure 2-10**) adjacent to the residences. These locations were selected for soil sampling because they are located in the area of the highest VOC concentrations in shallow groundwater near the residential area based on data from GP-2A. The soil gas results are summarized in **Table 2-4**, and the corresponding laboratory report is provided as **Appendix D**.

TCE, the most widespread VOC associated with the site, was not detected in any of the soil vapor samples. In general, the detected VOCs in soil vapor were gasoline-related compounds with the exception of acetone, methyl ethyl ketone, and carbon disulfide, which have not been detected in GP-2A. CDM Smith believes that the VOCs detected in the soil vapor samples originate from the sanitary sewer that flows through the residential area.

Section 3

Site Conceptual Model

The site is located in the Valley and Ridge physiographic province, which is typically characterized by folded bedrock forming alternating anticlines and synclines that produce the characteristic valleys and ridges. The bedrock beneath the site is the Newala Limestone that is overlain by a thin veneer of weathered limestone residuum, and the bedrock is present at land surface at several locations. The site hydrogeology has been classified on a site-specific basis to include four units, as summarized below.

- **Unit A Residuum** – This is the uppermost unit and is typically unsaturated, but may contain groundwater under water table conditions where it is thick enough. The residuum ranges from sandy clay to clayey sand, has an average 12-foot thickness, and has a maximum observed thickness of 25 feet. Groundwater flow in the residuum is to the northeast toward Cedar Creek. Borings near Cedar Creek and a reconnaissance along the creek did not identify any alluvial deposits west of the creek. Rather, the west creek bank is composed of residuum and weathered limestone. It appears that the channel of Cedar Creek has not historically migrated any further to the west than its present position and the channel rests on bedrock.
- **Unit B Upper Bedrock** – The uppermost bedrock typically contains groundwater under water table conditions. A definitive demarcation between Units B and underlying Unit C does not exist, but Unit B is assumed to be limited to less than 30 feet of land surface. The Unit B limestone has few fractures, which tend to be thin and produce little groundwater. Of approximately 32 boreholes that penetrate Unit B and have boring logs that include fracture information, 10 boreholes, or approximately 30%, document water producing fractures in Unit B. Most of these fractures were observed at depths less than 20 feet. Unit A and B are mapped together and represent the uppermost groundwater that is under water table conditions.
- **Unit C Bedrock** – This unit is similar to Unit B except that the fractures tend to be less frequent, and groundwater in Unit C is presumed to be confined to some extent. A definitive demarcation between Units C and underlying Unit D does not exist, but Unit C is assumed to be limited to within approximately 95 feet of land surface. Of approximately 26 boreholes that penetrate Unit C and have boring logs that include fracture information, 9 boreholes, or approximately 35%, document water producing fractures in Unit C. Most of these fractures were observed at depths from 40 to 50 feet.
- **Unit D Bedrock** – The limestone bedrock, Newalla Limestone, is a dense, hard, light gray to dark gray, and contains numerous stylolites. Stylolites form from insoluble residue accumulation as calcium carbonate dissolves while the limestone undergoes lithification. This tends to produce limestone with a very low primary porosity. Rock quality designations (RQD) from cores obtained at MW-43D averaged 96% with no observed fractures. The limestone is very dense with horizontal bedding planes. The high RQD values, horizontal bedding planes, and lack of fractures indicate that the limestone in the site area has not been subjected to the structural deformation that is typically associated with the Valley and Ridge. As a result, the bedrock has a relatively low secondary porosity. Drilling of deep exploratory well MW-43D indicated no fractures from approximately 95 feet until approximately 225 feet below land

surface. Fractures were not observed for the entire 450-foot depth drilled for MW-55D. Groundwater is present at depth in both wells. Unit D is primarily a confining unit. However, microfractures and possibly the primary porosity of the limestone bedrock have allowed VOCs to migrate downward into this unit in the source area.

The site stratigraphy is shown on the geologic cross section on **Figure 3-1** along with the monitoring wells, TCE concentrations, and observed fractures. VOCs released in the vicinity of the former disposal pit appear to have migrated vertically downward for a short distance of approximately 5 to 10 feet before encountering bedrock and entering Unit B. Once in groundwater in Unit B, it is apparent that the VOCs continued to migrate downward as much as they migrated laterally. While the distance from the estimated release location to the 1,000 ug/L TCE contour is approximately 250 feet, the vertical depth to this concentration is approximately 250 feet as well. In addition, VOCs extend in the upgradient direction. While this type of VOC migration could be a result of chemical diffusion rather than transport in groundwater, it is also possible that VOCs migrated during the pilot test injections. This conclusion is supported at MW-24B, which had low VOC concentrations prior to injection and 91,000 ug/L of TCE in a post-injection sample.

Mobile free-phase product has not been detected in the groundwater monitoring wells. However, free-phase VOCs in the form of dense non-aqueous phase liquid (DNAPL) may exist in the source area as small immobile droplets, or “ganglia.” This low mobility form of DNAPL is generally not recoverable and resides within the rock pore space. The relatively high VOC concentrations in this area do suggest the potential presence of DNAPL.

It appears that downgradient migration of the VOC plume in Unit C from the source area is not occurring because of the lack of continuous fracture zones and the low primary porosity of the bedrock. However, it remains possible that zones having microfractures exist that allow some downgradient migration for short distances as isolated fingers in Unit C. Downgradient migration in Unit D is not expected at all, as shown by MW-55D.

The second portion of the groundwater plume that exists primarily on the Missouri M&P site appears to originate near the manufacturing building. No direct evidence exists suggesting the source but it is likely to have entailed a single direct spill or release in the proximity of MW-51C, either on site or off site. This portion of the plume appears to migrate in a manner that is more consistent with groundwater transport mechanisms because of slightly increased secondary porosity features in Units B and C in this area. A continuous plume is mapped from this area downgradient to near the Missouri M&P property boundary and GP-10A. However, the TCE concentration profile indicates that additional VOC mass could be entering this plume in the vicinity of MW-5B and MW-37C. The source of this additional VOC mass is unclear. Three potential scenarios exist as possible explanations for the source. First, the plume may be the result of two releases at different times. Second, it is possible that an undiscovered VOC source is located on the Missouri M&P site, upgradient of MW-5B and MW-37C. Third, it is possible that VOCs originating from the former disposal pit have somehow managed to migrate to this area without being detected by the monitoring well network.

Section 4

Corrective Action Objectives and Scope

The corrective action objectives identified for this CAP are driven by EPD's RRSs, and mixed land uses exist within the area potentially requiring corrective action. The RRSs applicable to the Manchester Tank site are Type 3 and/or Type 4 RRSs. Manchester Tank is an industrial property and is ensured to remain an industrial property in compliance with the existing Environmental Covenant. Textron and Trinity are aware that the existing Environmental Covenant will require an update to incorporate the CAP requirements and to include EPD as a party to the covenant. RRS standards for soil and groundwater are applicable to Manchester Tank.

RRS exceedances potentially originating from the Manchester Tank site are currently present on the Missouri M&P site, upgradient on the Hon Company site, and in a portion of the downgradient residential area. These exceedances are for groundwater only and do not include soil. Type 3 or Type 4 nonresidential RRSs for groundwater are proposed for the Missouri M&P and Hon Company sites in accordance with the Hazardous Response Act (HSRA) Rules for Hazardous Site Response, 391-3-19-.07(5) Risk Reduction Standards. The Type 1 RRSs for groundwater at residential properties will be applied to the residential area.

4.1 Soil/Source

The known release source on the Manchester Tank site is believed to be limited to the former disposal pit area that has been excavated, removed, and properly disposed. As discussed in Section 2, Type 1 RRS exceedances for metals in soil are limited to cadmium, chromium, and lead. Considering Manchester Tank will remain an industrial property, Type 3 RRSs for nonresidential properties are proposed as the corrective action objectives for metals in soil.

As summarized in **Table 4-1**, RRSs were derived by the HSRA-prescribed procedure that is applicable for all soil from land surface down to the water table. These values are considered to be protective of groundwater. RRSs were also calculated for surface soil to a 2-foot depth based on toxicity and potential direct human contact. The carcinogenic and non-carcinogenic toxicity concentrations were calculated and values were derived for cadmium and chromium. Lead is an exception because HSRA rules dictate that the Type 3 RRS is 400 mg/kg from surface down to the water table. Table 4-1 compares the maximum concentration in soil on the Manchester Tank site for these metals against the Type 3 RRSs. As shown in this table, the maximum concentrations for all three metals are below their respective Type 3 RRSs. Thus, soil at the site is in compliance with the Type 3 RRSs and corrective action for soil is not required.

4.2 Source Area Groundwater

Groundwater at the Manchester Tank site in the immediate vicinity of the former source contains VOC concentrations on the order of 100,000 ug/L. These concentrations diminish drastically in the downgradient direction. The previously completed pilot test and observed hydrogeology have demonstrated that the subsurface conditions in this area are not conducive to VOC treatment using conventional technologies due to the low permeability bedrock. As noted in Section 1.1, previous injection of ozone at high pressures is believed to have dispersed VOCs into previously uncontaminated areas and areas where VOCs were lower than currently observed. The most

promising alternative to high pressure injection for this site involves fracturing the low permeability bedrock to allow treatment access to the VOCs. However, fracturing will create new preferential groundwater flow pathways, and these pathways could also result in extensive migration of VOCs into otherwise uncontaminated areas.

While control measures may be appropriate to eliminate or abate present and potential future threats to human health and the environment in this area, it is not feasible to achieve Type 3 or Type 4 RRSs in groundwater. As a result, Type 5 RRSs are proposed for a limited area of the site. This area generally includes the area exceeding 5,000 ug/L TCE in groundwater. Mobile free-phase product has not been detected in groundwater monitoring wells; however, free-phase VOCs in the form of DNAPL may exist in this area. The requirements associated with the application of Type 5 RRSs for groundwater in this area are summarized below.

- Type 5 RRSs are applicable to areas exceeding 5,000 ug/L TCE in groundwater.
- Engineering controls to prevent the expansion of the area exceeding 5,000 ug/L TCE in groundwater, institutional controls, and/or monitoring will be required to prevent VOC migration beyond this area and to control potential exposures.
- Beyond this area at the site boundary, the overall corrective action plan shall apply the Type 3 and/or Type 4 RRSs for groundwater migrating downgradient.

4.3 VOC Migration in Groundwater

For the nonresidential properties (the Hon and Missouri M&P sites) in the areas of the site, Type 4 groundwater RRSs are proposed. The exception to this is in cases where the Type 4 RRS is below laboratory practical quantitation limits. In such cases, the Type 3 RRSs will be used. For groundwater, Type 3 RRSs are the same as Type 1 and are taken from Table 1 of Appendix III of the HSRA rules. Type 4 RRSs are derived based on toxicity and human contact. **Table 4-2** shows the maximum concentration, the Type 1/3 groundwater RRSs, and the derivation of Type 4 RRSs for those compounds that exceed their respective Type 1 groundwater RRSs. These values were derived by the HSRA-prescribed procedure for calculating the carcinogenic and non-carcinogenic toxicity concentrations. As shown in Table 4-2, the following VOCs have been detected above the proposed non-residential RRSs:

1,1,2-TCA;	trans-1,2-DCE
1,1-DCE;	TCE; and
1,2-DCA;	VC.
cis-1,2-DCE;	

VOCs in groundwater migrating beyond the specified non-residential properties and originating from the Manchester Tank site are limited to a small portion of the nearby residential area. The Type 1 RRSs for groundwater will be applied for this area.

4.4 Soil Vapor

CDM Smith applied the VISL calculator to assess the soil gas results, the results of which are shown on **Table 4-3**. The VISL calculation sheets are included in **Appendix F**. Table 4-3 includes calculations of the residential land use target concentrations for indoor air and soil gas. One VOC, benzene, exceeded the calculated target soil gas concentration. However, benzene is not a site related VOC. CDM Smith

also calculated the indoor air concentrations from the soil gas results using the VISL calculator. For these calculations, the laboratory reporting limit was used in the calculation for sample results that were below the reporting limit. Carcinogenic risks and hazard quotients were also calculated from the calculated indoor air concentrations. Benzene again showed a potential risk. The remainder of the detected VOCs showed risks within the acceptable ranges. However, the reporting level for 1,1,2-trichloroethane of 11 mg/m³ exceeded the target soil gas concentration of 2.1 mg/m³. Neither benzene nor 1,1,2-trichloroethane were detected in groundwater at GP-2A. Based on this analysis, CDM Smith concludes that corrective actions to mitigate vapor intrusion are not required for this site.

4.5 Corrective Action Scope

The corrective action scope includes the areas that exceed the applicable groundwater RRSs based on property uses described above. **Figure 4-1** and **Figure 4-2** show the areas of exceedance for TCE (Type 4 RRS = 5.2 ug/L and Type 1 RRS = 5.0 ug/L) in Unit A/B and Unit C, respectively. Considering the low RRS for TCE, the small difference in the two RRSs for TCE, and the prevalence of TCE exceedances of RRSs compared to other compounds, the areas of TCE exceedances are expected to delineate the area subject to corrective action. The extent requiring corrective action is based on the highest concentration of TCE found at each well over time. For Unit A/B, this area is inclusive of monitoring wells:

MW-4B	MW-15B	MW-16A
MW-5B	MW-18B	MW-26A
MW-8B	MW-24B	MW-28A
MW-9B	MW-32B	MW-29A
MW-10B	GP-2A	MW-30A
MW-11B	MW-6A	

For Unit C/D, the area of exceeding the TCE Type 4 RRS is inclusive of monitoring wells:

MW-7C	MW-31C	MW-41C
MW-12C	MW-36C	MW-51C
MW-13C	MW-37C	MW-52C
MW-21C	MW-38C	MW-54C
MW-22C	MW-39C	MW-43D

Section 5

Remedial Technology Evaluation

An evaluation of remedial technologies has been completed for the Manchester Tank site. This evaluation included a focused screening of potential technologies, technology ranking, technical and cost comparisons of the selected technologies, and final remedial alternative selection. The evaluation process and results are summarized below.

5.1 Technology Identification and Screening

Remedial technologies were identified and screened for the source area groundwater and for groundwater that has migrated from the source area. Consideration was given to the fact that remedial strategies could vary, depending on the area that was the focus for remediation.

5.1.1 Source Area Groundwater

Remedial technologies applicable to the source area groundwater were identified and ranked according to their ability to meet the RRSs, be protective of human health, be effective on DNAPL, be effective in bedrock, and reduce the operation and maintenance (O&M) requirements. In addition, the potentially negative secondary effects of each technology were considered. The source area groundwater technologies were identified and evaluated, as summarized below and in **Table 5-1**.

Groundwater Extraction

Groundwater extraction involves pumping groundwater from strategic locations. Extracted groundwater is typically treated on site and either disposed of off site or reinjected to improve contaminant flushing. In general, it is an effective technology for controlling contaminant migration but is not effective alone at reducing source area concentrations.

For this site, groundwater extraction was generally considered to be incapable of treating the source area groundwater to the RRSs and was not considered capable of removing potential DNAPL from primary porosity of the bedrock. However, because groundwater extraction is optimal for preventing VOC migration from the source area, it has benefits toward the protection of human health. Given a sufficient quantity of wells and flow, groundwater extraction has been demonstrated to be effective in bedrock. This technology would require O&M to be carried out for a long period of time but the requirements are moderate. Negative secondary effects are not associated with this technology, and groundwater extraction was retained for cost analysis.

***In Situ* Chemical Oxidation (ISCO)**

ISCO involves treatment of constituents in place, typically via injection of oxidizing agents. Oxidation chemically converts hazardous constituents to non-hazardous or less toxic compounds that are more stable, less mobile, and/or inert. The oxidizing agents most commonly used are ozone, hydrogen peroxide, hypochlorites, chlorine, and chlorine dioxide.

ISCO can be effective on DNAPL, can treat down to the RRSs, and requires little O&M. It also is considered protective of human health; although a negative secondary effect involves a remediation contractor handling large volumes of hazardous materials (i.e., the oxidizing agents). From a technical application perspective, hydrofracturing would likely be required to uniformly deliver the oxidants

through the formation in the groundwater source zone. Hydrofracturing can have serious negative secondary effects because contaminants can be spread in this process. As a result, this technology was eliminated from further consideration.

***In Situ* Biological Treatment**

Similar to ISCO, in situ biological treatment is done in place and involves converting hazardous constituents into non-hazardous or less toxic compounds. Environmental conditions are typically altered through injecting oxygen, nutrients, and if necessary, microorganisms to promote microbial degradation of constituents. In contrast to ISCO, the injected solutions are non-hazardous. However, for the Manchester Tank site, hydrofracturing would again be required to deliver the bioremediation amendments. Considering the negative secondary effects described above, this technology was eliminated from further consideration.

Electrical Resistance Heating (ERH)

ERH is also an in situ process. It involves passing alternating current electricity between subsurface electrodes to heat the surrounding soil and groundwater. Hazardous constituents are evaporated in the process and captured via a soil vapor extraction system.

ERH is capable of meeting the RRSs, can be effective for DNAPL, and is protective of human health. While in operation, ERH is very O&M intensive, but these systems typically operate for approximately one year or less. While feasible, implementation at this site would present several challenges due to the hydrogeology. The shallow bedrock and depth of treatment in bedrock are likely to result in expensive drilling costs and extended treatment duration. For comparison purposes, ERH was retained for cost analysis.

5.1.2 Groundwater Outside of the Source Area

The technologies identified for the diffuse groundwater plume were evaluated for performance reliability, effectiveness on bedrock and residuum, appropriateness for the observed concentrations, and O&M frequency. During an initial technology identification process, it became obvious that the treatment of the entire area exceeding the RRSs in groundwater was not practical because of the difficulty in delivering treatment solutions to the formation. In addition, such an approach would be very disruptive to Missouri M&P operations. Thus, the technologies focus on a barrier approach to prevent VOCs in groundwater from migrating. The resulting identification and screening of technologies for groundwater outside of the source area are presented below and in **Table 5-2**.

ISCO Barrier

This technology is similar to that described in Section 5.1.1 except that in this case, oxidizing agents would be injected to create a “wall” that treats groundwater as flow passes through the barrier. This technology is considered a reliable treatment and barrier method. However, because of the dense, low porosity nature of the bedrock, it was again believed that hydrofracturing would be required to implement this technology. O&M would be required to maintain the oxidant levels in the barrier over time, but ISCO would be capable of treating the observed VOC concentrations in groundwater down to the RRSs. As a potentially negative secondary effect, prolonged treatment using ISCO in a barrier could result in a plume of poor quality groundwater downgradient because of the reaction residues. This technology was eliminated from further consideration.

Biological Barrier

A biological barrier would be similar to the ISCO barrier except that oxygen, nutrients, and/or microorganisms would be used to promote constituent degradation. This technology is also considered a reliable treatment and barrier method, and the effects on downgradient groundwater quality are not a concern as they are with ISCO. However, hydrofracturing would be required, and as such, this technology was also eliminated from consideration.

Hydraulic Control

As described in Section 5.1.1, hydraulic control through groundwater extraction is effective in controlling VOC migration and reducing the VOC mass in groundwater. This is a highly reliable technology and is effective in residuum, as well as bedrock. The O&M requirements are moderate but are required for the long term. This technology is also generally acceptable to third parties and was retained for cost analysis.

5.2 Technology Cost Evaluation

Two technologies, groundwater extraction and ERH, were retained for a cost evaluation for source area groundwater based on the technical evaluation. At this stage of evaluation, the costs are conceptual for relative comparison to each other. A more detailed cost estimate of the proposed remedy is presented in Section 6 of this CAP.

Hydraulic control using groundwater extraction barriers was the only technology retained for the remainder of the groundwater plume. As a result, cost estimates were developed for two combined remedial alternatives rather than for each separate technology. Remedial Alternative 1 consists of hydraulic containment with source area ERH treatment and Remedial Alternative 2 consists of hydraulic containment with source area groundwater extraction.

5.2.1 Remedial Alternative 1 – Hydraulic Containment with Source Area ERH

A cost estimate was obtained from an ERH vendor for the source area groundwater treatment. The scope of work assumed that approximately 100,000 cubic yards (yd³) of aquifer would require treatment. The items in the ERH cost estimate included electrodes and installation, surface installation, start-up, and operation. The estimated operation duration was approximately 4 months, and the cost was approximately \$5,000,000. Note that due to the hydrogeology, the operation duration could easily be 8 months or more to achieve treatment objectives, with the cost exceeding more than \$10,000,000.

The hydraulic containment scope assumed seven extraction wells with a combined flow of approximately 40 gallons per minute (gpm). The treatment system was assumed to consist of an air stripper for VOC removal with discharge to a publicly-owned treatment works (POTW). Installation of the hydraulic control system, including wells and the treatment system, was estimated to be approximately \$1.2M with an additional \$237,000 for O&M and monitoring per year. Assuming an operation cycle of 10 years with O&M beginning at the end of year 2 when treatment system construction is complete, this alternative would cost approximately \$8 million.

5.2.2 Remedial Alternative 2 – Hydraulic Containment with Source Area Groundwater Extraction

The cost estimate for this alternative is based on the same assumptions for groundwater extraction under Remedial Alternative 1 with the addition of two extraction wells and associated treatment

capacity. The scope for this alternative includes nine extraction wells with a combined flow of approximately 50 gpm. The treatment system was assumed to consist of an air stripper for VOC removal with discharge to a POTW. Installation of the hydraulic control system and source area wells was estimated to be approximately \$1.4M with an additional \$237,000 for O&M and monitoring per year. Assuming an operation cycle of 10 years with O&M beginning at the end of year 2 when treatment system construction is complete, this alternative would cost approximately \$3.2 million.

5.3 Remedy Selection

The following summarizes the major advantages and disadvantages of the two remedial alternatives being considered:

Remedial Alternative	Advantages	Disadvantages
1 – Hydraulic Containment with Source Area ERH	<ul style="list-style-type: none"> • Thermal destruction of constituents in the source area • Controls VOC migration beyond industrial properties • Is expected to meet the proposed RRRs under this CAP 	<ul style="list-style-type: none"> • A long-term hydraulic containment system is still required for groundwater outside of the source area • Treatment into bedrock is very expensive due to the amount of drilling • Experience with this technology in bedrock is limited • The duration of treatment, which has a significant impact on cost, is difficult to predict because of the low porosity bedrock • This alternative is expected to cost at least \$5 million more than Alternative 2 over a 10 year operation cycle • There is much more uncertainty in the cost of this alternative compared to Alternative 2
2 – Hydraulic Containment with Source Area Groundwater Extraction	<ul style="list-style-type: none"> • Proven technology to control migration of VOCs in groundwater • Effective in both residuum and bedrock • Is expected to meet the proposed RRSs under this CAP • Long-term O&M requirements are moderate • Significantly less cost and less uncertainty in the cost when compared to Alternative 1 	<ul style="list-style-type: none"> • A long-term containment and treatment system with O&M and monitoring will be required • Limited reduction of VOCs in the source area compared to Alternative 1

In addition to these advantages and disadvantages, it is important to consider that the groundwater plume is almost entirely limited to the Manchester Tank and adjacent Missouri M&P properties and that there are currently no apparent risks to human health. Factoring this, that both alternatives are expected to meet the proposed RRSs, the proven ability of groundwater extraction to control VOC migration, and the significantly less cost, Alternative 2 was selected for corrective action implementation.

Section 6

Corrective Action Description

Figures 4-1 and 4-2 show the areas requiring corrective action and the ambient groundwater flow direction. The corrective action objective for the site is to achieve Type 3/4 RRSs for groundwater except for the source area (Type 5 RRSs) and a small portion of the nearby residential neighborhood (Type 1 RRSs), as noted in Section 4. The selected corrective action for the site is onsite containment and treatment of the dissolved plume. The major corrective action tasks are listed below and described in detail in the remainder of this section. Detailed descriptions of the selected corrective action requirements and components are also provided in this section.

- Design Data Collection
- Final Design;
- Bidding, Procurement, and Construction;
- Monitoring; and
- Compliance Status Report.

6.1 Design Data Collection

Additional data must be collected to support the final design of the corrective action. Activities required to fill the design data gaps include installing wells along the property lines and performing well capacity and aquifer performance tests.

6.1.1 Exploratory Borings

Exploratory wells will be installed in the planned barrier zones so that extraction tests can be performed and capture zones estimated. It is recognized that obtaining sufficient groundwater flow to achieve capture will be a challenge, and multiple exploratory borings may be required before sufficient pumping rates can be achieved. **Figure 6-1** shows the containment barrier transects where the exploratory borings will be installed.

The exploratory borings will be constructed by initially installing 10-inch casing into bedrock and extending the boring into rock with a 6-inch diameter open bore using air drilling techniques. The drilling process will provide the first indication as to the groundwater production from each exploratory boring. Each exploratory boring will be left as open-hole construction unless the boring suffers from sediment infilling; in which case, 4-inch temporary PVC screen and well casing will be installed for subsequent flow testing. As shown on Figure 6-1, exploratory borings will be installed in four areas/barriers. In each location, the exploratory borings will be initially installed using an optimized spacing across each area. If sufficient groundwater flow is not achieved, midpoint exploratory borings will be installed. A summary of each area/transect is provided below:

- **Source Area** – This area is located near the source removal area and has the highest groundwater TCE concentrations. Exploratory borings will be installed along the center of the outlined area. The overall length of this area is approximately 375 feet. Up to approximately 13

exploratory borings will be installed to a depth of 100 feet in this area. The exploratory borings installed in this area will include both Unit A/B and Unit C.

- **Transect 1** - This area is located along the Missouri M&P west property line and has been located to capture the VOC plume originating near MW-51C. CDM Smith estimates that one productive well will be required in this area and three exploratory borings are planned for contingency purposes. The exploratory borings in this area will have a total depth of 100 feet.
- **Transect 2** – This transect is located along the Missouri M&P west property line and has been located to capture the majority of the plume that is moving toward the Missouri M&P site. It is approximately 400 feet in length, and will have up to 14 exploratory borings along its length. The exploratory borings will be installed to a depth of 40 feet.
- **Transect 3** – This transect is located between the Missouri M&P east property line and the adjacent residential area to capture the portion of the plume near the residential neighborhood. It is approximately 780 feet in length, and up to 26 exploratory borings will be installed along its length. The exploratory borings will be to a depth of 100 feet. The exploratory borings installed along this transect will include both Unit A/B and Unit C.

6.1.2 Aquifer Testing

Upon completion of the exploratory borings, the borings that have the potential to produce sufficient groundwater based on observations during drilling will be tested for flow. The selected borings will undergo capacity and water quality testing. Well capacity tests will be accomplished using a submersible pump, flow control valves, and water level data loggers. Groundwater will be extracted at the maximum sustainable rate for approximately two hours. Drawdown in the boring and surrounding wells will be recorded continuously using data loggers, and well production capacity and radius of influence will be estimated for each boring.

Groundwater samples will also be collected from each boring and analyzed for VOCs, iron, and hardness by a laboratory. This data will be used to determine which wells will be most effective for plume containment and to estimate the contaminant loading of the extraction system. Other water quality parameters will be collected to evaluate conditions that may be detrimental to air stripping, which is the proposed corrective action technology for this site. Data collected during the well capacity and quality testing will be analyzed to determine which of those borings provide the most efficient means of containment for each area/transect.

6.2 Final Design

Construction design and/or work plan documents will be prepared in sufficient detail to allow the controlled execution of the work in an effective manner while providing the necessary documentation to support that containment is being achieved.

6.2.1 Extraction Wells

As determined by the aquifer testing, select exploratory borings in the source area and along transects 1, 2, and 3 will be converted to extraction wells. Final extraction well construction will be determined based on the well capacity and water quality tests discussed above. CDM Smith anticipates that containment can be achieved using nine extraction wells with an average flow rate of 5 gpm each, or approximately 50 gpm total flow. Extraction wells will remain open boreholes unless sediment infilling or specific fractures are found that are particularly efficient to achieve containment. In such

cases, the exploratory boring will be reamed to a 10-inch diameter with 6" PVC screen and casing installed. Each extraction well will have a submersible pump and associated pump control equipment at the well head. A totalizing flow meter will also be installed at each wellhead to determine flow from each well. **Figure 6-2** shows the likely extraction well layout using nine wells.

6.2.2 Treatment System

Specific details for the treatment system will be determined following design data collection and discussions with the POTW. CDM Smith has assumed a relatively simple system consisting of an air stripper being the only required means of VOC removal though even an air stripper may not be needed depending on the requirements of the POTW. **Figure 6-3** shows the anticipated treatment system schematic. Piping from the extraction wells to the system will be dual wall high-density polyethylene (HDPE). With the exception of the extraction well along Transect 1, all wells will manifold into a common header. The header pipe will be 2-inch carrier pipe inside 4-inch containment pipe, both of which are HDPE. Piping between each extraction well and the header pipe will be 1-inch inside 2-inch HDPE. All piping will be buried below grade with approximately 2 feet of cover. Piping from the extraction well at Transect 1 will run directly to the treatment system, above grade, along the wall of the building.

The treatment system will be constructed in the northwest corner of the existing building. This area of the building is unoccupied, and its existing construction as a warehouse makes it ideal for construction of the treatment system. CDM Smith anticipates the footprint of the system will be approximately 25 feet by 15 feet. Included in the footprint will be a 6-foot deep sump for secondary containment. The entire treatment system footprint will be surrounded by a 6-inch high curb, and the concrete will be refinished or lined to seal any cracks.

As shown in Figure 6-3, the process equipment for the treatment system will be straightforward. Groundwater from the extraction wells will discharge into a 1,000-gallon polyethylene influent equalization tank. An influent pump will transfer water from the tank to the air stripper, where a blower will remove the VOCs from groundwater. CDM Smith will design the air stripper to reduce VOC concentrations in groundwater by 99%. The exhaust air from the air stripper will discharge directly to the atmosphere through a stack above the building roof. Treated groundwater will be discharged to an effluent equalization tank before final discharge to the POTW lines located north of the building.

6.2.3 Treated Water Discharge

CDM Smith expects that the treated groundwater will be discharged to the sewer line that is located to the north of the building (Figure 6-2). CDM Smith will coordinate with the Polk County Water Authority to secure the required permit for discharge. The discharge line from the treatment system will consist of 3-inch buried PVC pipe with approximately 2 feet of cover.

6.2.4 Treatment System Control

Treatment system control will be automatic with safety interlocks that will stop groundwater extraction and treated water discharge in the event of process excursions. In addition to local operation, the system will have remote monitoring and operation control for O&M personnel.

6.2.5 Operation and Maintenance

CDM Smith will create an O&M manual for the system prior to startup. The O&M manual will include manuals for all system components, startup and operation procedures, and routine maintenance checklists. In addition to remote monitoring, CDM Smith expects that routine site visits will be

performed weekly. During these routine visits, system parameters will be recorded, and a visual inspection will be made of the treatment system and wellheads. CDM Smith also assumes that non-routine site visits will be required about once per month to address possible treatment system performance excursions or events that require troubleshooting.

6.3 Bidding, Procurement, and Construction

Textron has not determined the contracting mechanism that will be used for the construction. Options include preparing formal bid specifications that can be used to solicit competitive bids, a design-build approach, or a hybrid approach where select items are contracted to multiple contractors using a combination of the contracting mechanisms.

6.4 Monitoring

A groundwater monitoring program will be implemented to evaluate treatment system operation, system performance, and plume status.

6.4.1 Treatment System Operation

The permit issued by the Polk County Water Authority will determine the frequency and constituent analysis required for operation of the treatment system. However, CDM Smith assumes that sampling will be performed once per month and that the air stripper influent and effluent will be sampled.

6.4.2 System Performance Monitoring

System performance monitoring will be performed initially on a quarterly basis. The purpose of this sampling will be to monitor the impact and performance of the groundwater extraction system in the areas of interest. Water levels and VOC samples will be collected from all extraction wells and select wells in each area. The number and location of the wells for the system performance monitoring will be determined during the final design; however, CDM Smith has assumed the following number of wells will be selected from each area:

- **Source Area** – 4 wells;
- **Transect 1** – 1 well;
- **Transect 2** – 3 wells; and
- **Transect 3** – 6 wells.

The wells selected for system performance monitoring may be existing monitoring wells or open boreholes installed during the investigation phase. Any boreholes selected for monitoring purposes will be converted to 2-inch PVC monitoring wells using standard well construction techniques (sand pack, bentonite seal, and grout). Screen intervals and other construction details will be determined following selection of extraction wells based on monitoring needs. For costing purposes, CDM Smith assumes that all 14 monitoring locations will be converted from open boreholes to 2-inch monitoring wells.

6.4.3 Plume Status Monitoring

Plume status monitoring will be performed on a semiannual basis to determine the impact of the extraction system on the groundwater VOC plume. Ten groundwater monitoring wells are anticipated

for water level measurements and groundwater VOC sample collection. The final number and location of wells for the plume status monitoring will be determined during the final design.

Two years after the startup of the groundwater extraction system, the plume status monitoring will be expanded to include those wells sampled in the system performance monitoring event. After two years, the separate quarterly system performance monitoring events will be discontinued.

6.4.4 Reporting

Groundwater monitoring reports will be submitted on an annual basis to EPD. The report will include tabulated analytical results, a potentiometric surface map, operational data for the groundwater treatment system, and conclusions regarding the containment process.

6.5 Compliance Status Report

Two years after startup of the groundwater extraction and treatment system, a compliance status report (CSR) will be prepared that conforms to the EPD's requirements. The CSR will document the site investigations, update the horizontal and vertical extent of contamination in groundwater, and determine the effectiveness of the onsite containment strategy using groundwater extraction. The following list of EPD's checklist items will be attached to the CSR.

- Concise statement of report findings;
- Property owner verification;
- Qualified groundwater scientist statement;
- Source description;
- Extent of groundwater contamination;
- Description of potential environmental receptors;
- Identification of affected properties;
- Potentially responsible party contact information; and
- Description of remediation.

6.6 Corrective Action Schedule

Figure 6-4 includes the proposed schedule for corrective action at the Manchester Tank site. The design data collection activities, including the investigation borings and aquifer performance testing, are expected to require approximately seven months. The design will then be finalized, requiring approximately six months. Treatment system construction activities are expected to begin during month 17 and will continue for an estimated three months. Groundwater monitoring will be performed at the start of the groundwater extraction and treatment system, at month 20. The CSR report is scheduled to be performed two years following the startup of the extraction system with groundwater monitoring continuing through year ten.

6.7 Corrective Action Cost Estimate

Table 6-1 includes the cost estimate for the planned corrective action at the Manchester Tank site from design data collection through construction and ongoing monitoring through year ten. These costs represent CDM Smith's best estimates of scope based on the most-probable field conditions and contractor costs. A 15% contingency cost was also added to the estimate as a conservative measure. A cost summary developed from Table 6-1 is presented below.

Exploratory Borings	\$	406,000
Aquifer Testing	\$	114,000
Investigation Derived Waste	\$	41,000
Monitor Well Installation	\$	10,000
Design and Bidding	\$	58,000
Treatment System Construction	\$	800,000
Treatment System O&M (Through Year 10)	\$	1,619,000
Monitoring (Through Year 10)	\$	291,000
Compliance Status Report	\$	15,000
15% Contingency	\$	503,000
Corrective Action Total	\$	3,857,000

Section 7

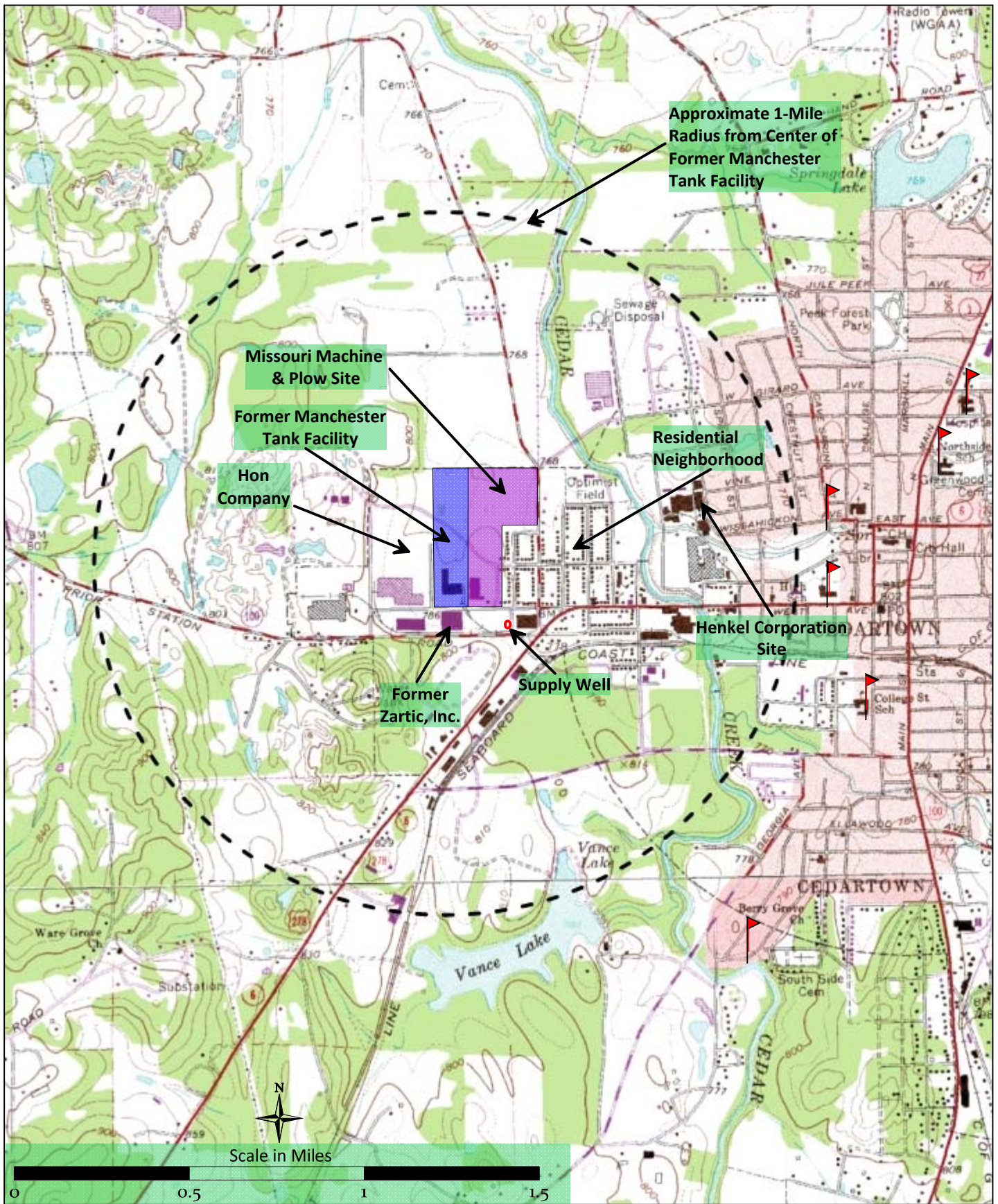
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Figures



↑ Schools, Hospitals, & Day Care

Figure 1-1: Surrounding Land Use

Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



- Residuum Geoprobe, Zone A
- ◇ Residuum Well, Zone A
- ◆ Shallow Bedrock Water Table Well, Zone B
- ✱ Bedrock Well, Zone C
- ✱ Deep Bedrock Well, Zone D

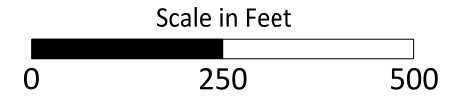


Figure 2-1: Monitoring Well Locations

Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia

○ Residuum Geoprobe, Unit A
○ Residuum Well, Unit A
● Upper Bedrock Well, Unit B
 Unit A/B Potentiometric Surface Elevations, Contour Interval = 2 feet
 — 760 —



NOTE: Posted values are potentiometric surface in feet above mean sea level. Water levels were recorded during 11/2012.



Scale in Feet

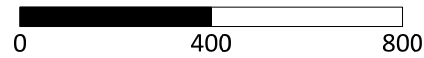


Figure 2-2: Unit A/B Potentiometric Surface
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES



NOTE: Posted values are for potentiometric surface in feet above mean sea level (NAVD88)
 Water levels were recorded during 11/2012.

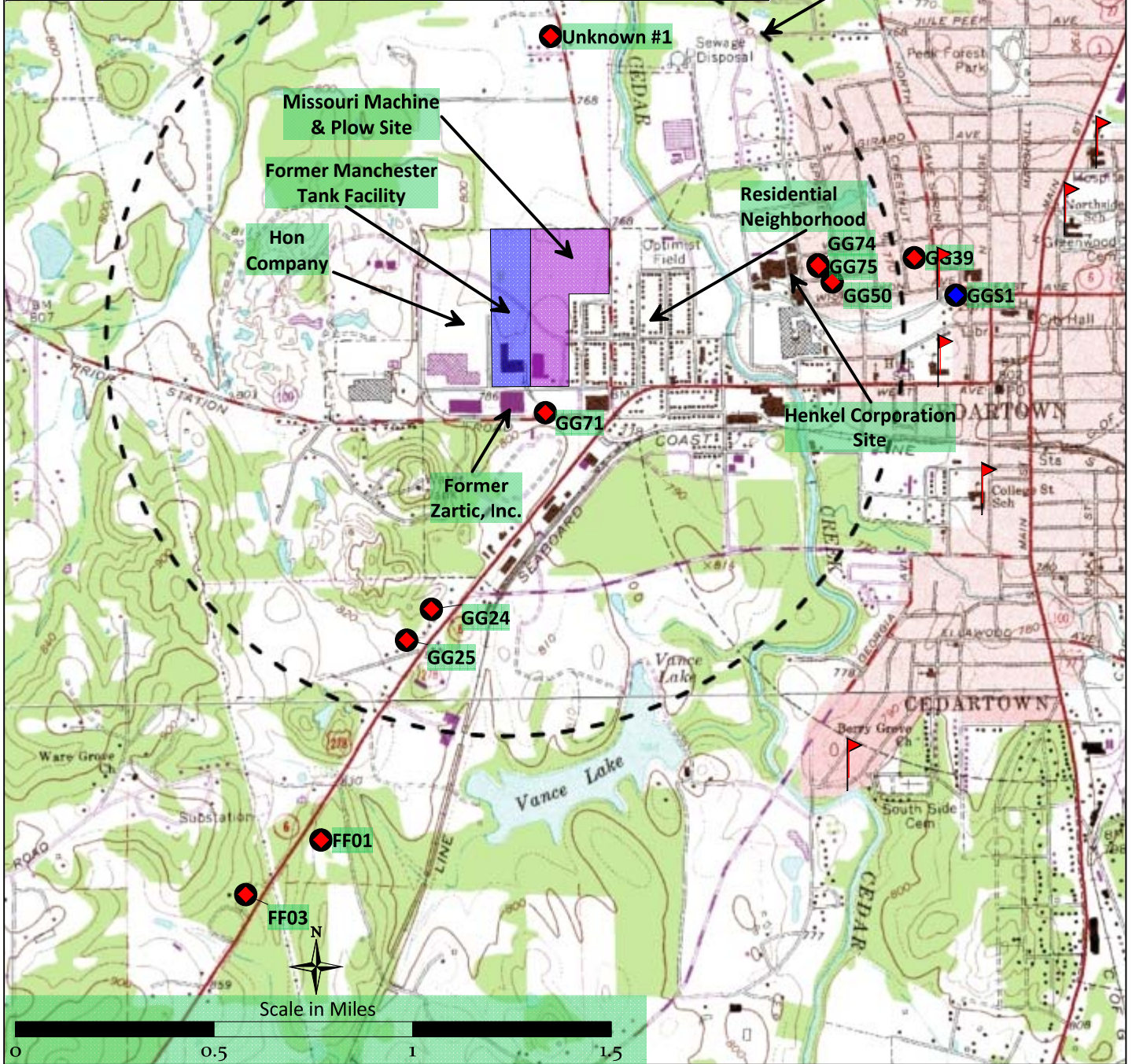


Scale in Feet



Figure 2-3: Unit C Potentiometric Surface
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia

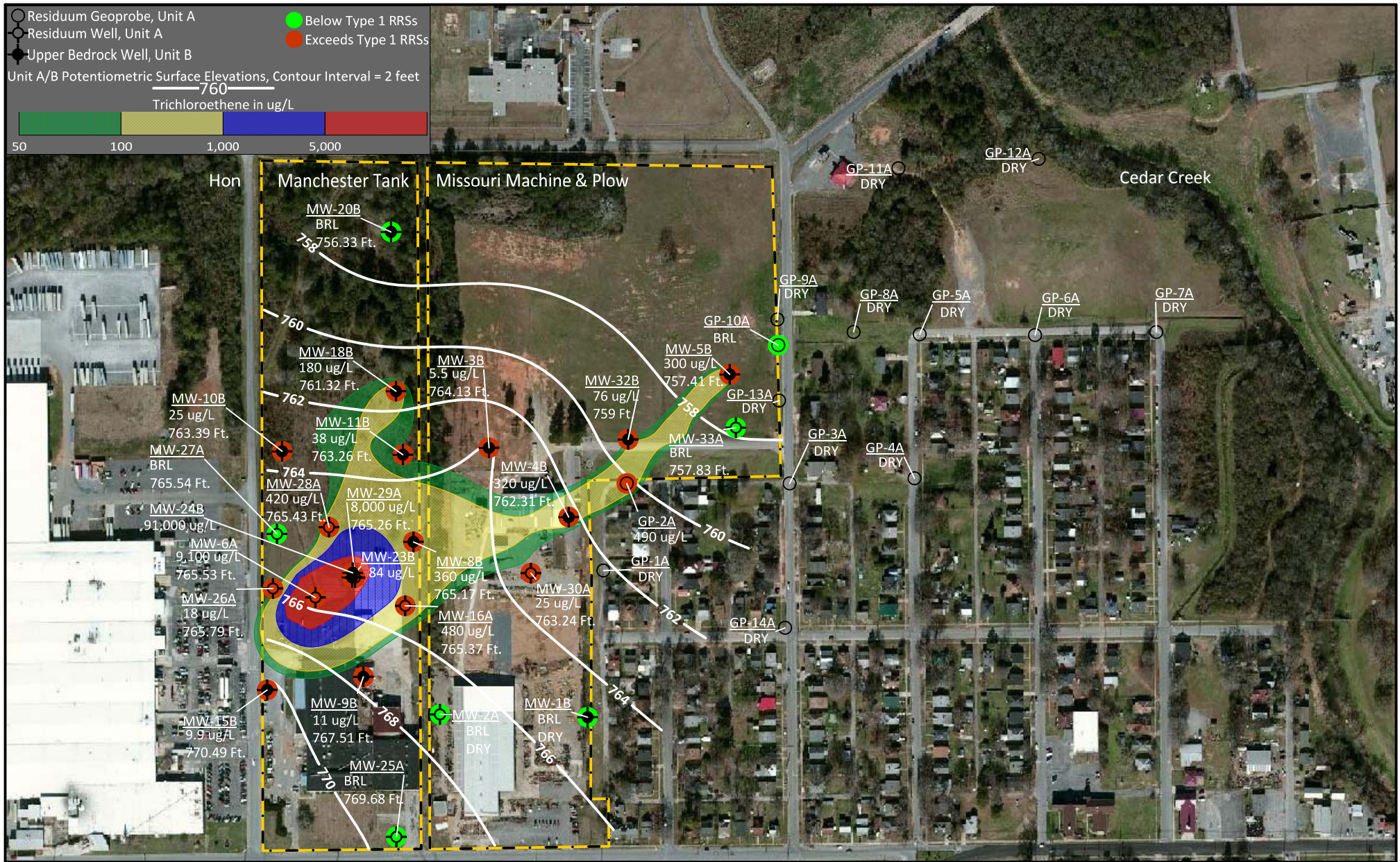
Name	Casing Depth feet	Total Depth feet	Source	Owner	Use	Install Date	Flow
FF01	Unknown	155	Newala Formation	Unknown	Unknown	Unknown	Unknown
FF03	Unknown	70	Knox Group	Unknown	Unknown	Unknown	Unknown
GG24	57	84	Newala Formation	Thompson	Domestic	1961	15 GPM
GG25	25	80	Newala Formation	Sprayberry	Unknown	1942	Unknown
GG39	Unknown	73	Newala Formation	Unknown	Unknown	Unknown	Unknown
GG50	Unknown	73	Newala Formation	Unknown	Unknown	Unknown	Unknown
GG71	140	386	Unknown	Zartic	Industrial	1969	280 GPM
GG74	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
GG75	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
GG51	NA	NA	Unknown	Cedartown	Public Supply	Unknown	~4 MGD
Unknown #1	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown



- ◆ Non-Public Water Supply Well
- ◆ City of Cedartown Public Water Supply Spring
- ▲ Schools, Hospitals, & Day Care

Figure 2-4: Groundwater Use

Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



NOTE: Posted values are trichloroethene in groundwater and potentiometric surface.
 Sampling was performed from 6/2012 to 10/2012 and water levels were recorded during 11/2012.



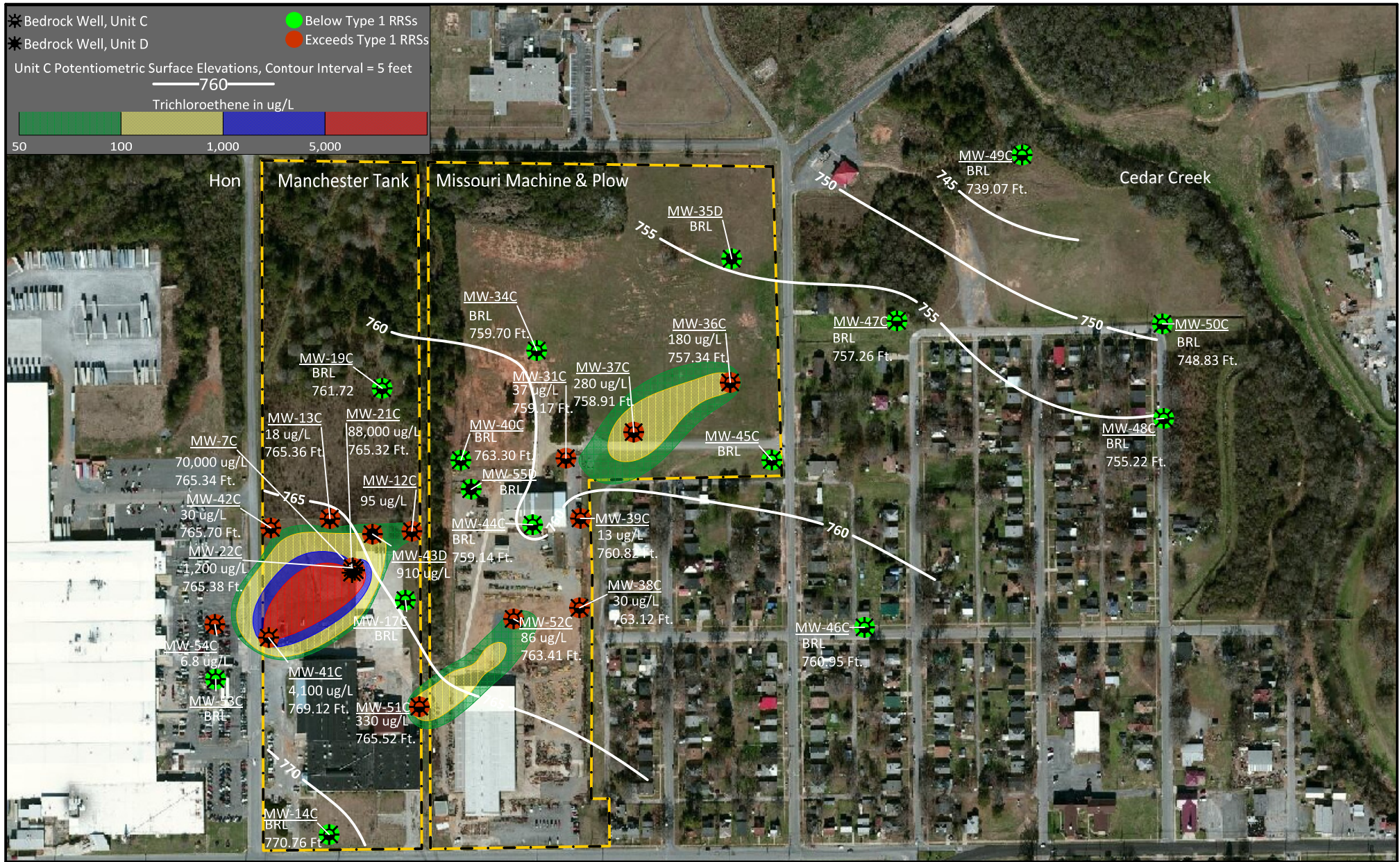
Scale in Feet



Figure 2-5: Unit A/B Investigation Results
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES



NOTE: Posted values are trichloroethene in groundwater and potentiometric surface.
 Sampling was performed from 6/2012 to 3/2013 and water levels were recorded during 11/2012.



Scale in Feet



Figure 2-6: Unit C/D Investigation Results
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia

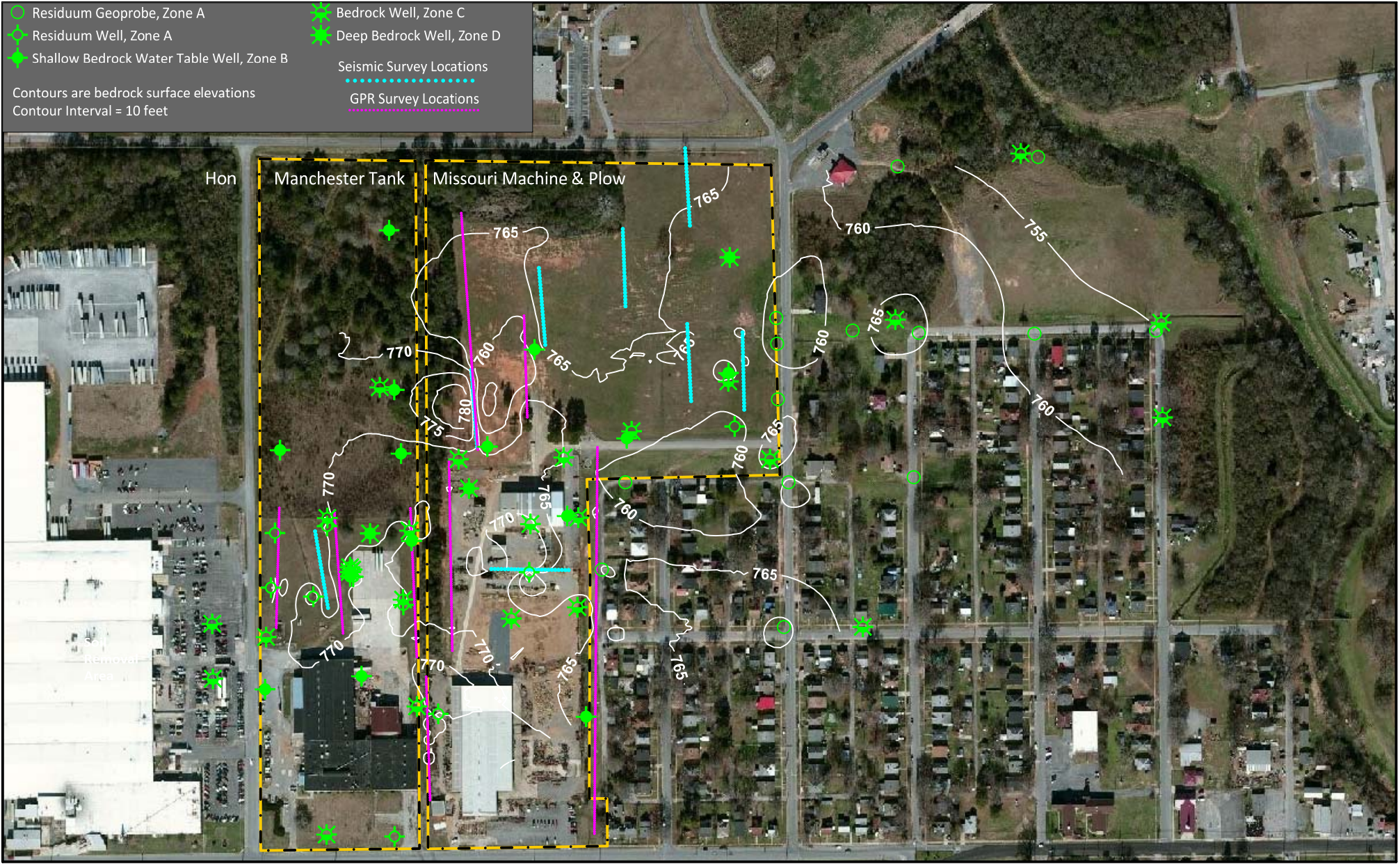
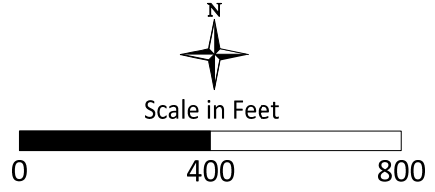


Figure 2-7: Interpreted Top of Bedrock
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia





- Background Soil Sample
- Soil Sample Below Delineation Criteria
- Soil Sample Exceeds Delineation Criteria

Delineation Criteria: The greater of the Type 1 Soil Risk Reduction Standard or background (95% confidence upper prediction limit).



WATER + ENVIRONMENT + TRANSPORTATION + ENERGY + FACILITIES

Figure 2-8
Soil Sample Locations

Corrective Action Plan
Former Manchester Tank Company Site
(HSI #10765)
Cedartown, Polk County, Georgia



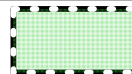


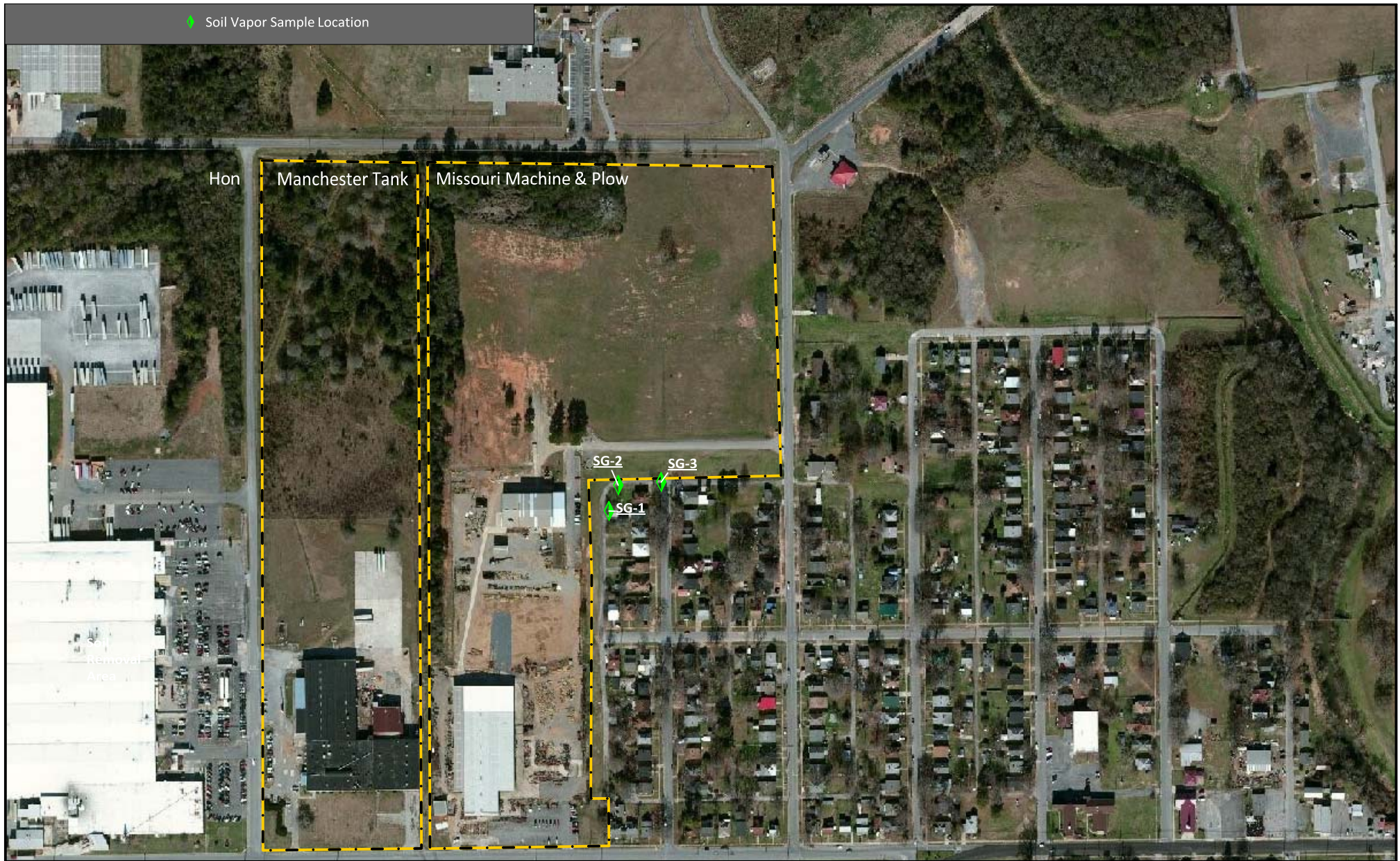
-  Estimated Area Exceeding the Type 1 Chromium Soil Risk Reduction Standard
 -  Soil Sample Below Chromium Type 1 RRS
 -  Soil Sample Exceeds Type 1 Chromium RRS
- Posted values are chromium in soil, mg/kg.

Figure 2-9
Soil Chromium Delineation
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



Soil Vapor Sample Location

Hon

Manchester Tank

Missouri Machine & Plow

SG-2

SG-3

SG-1

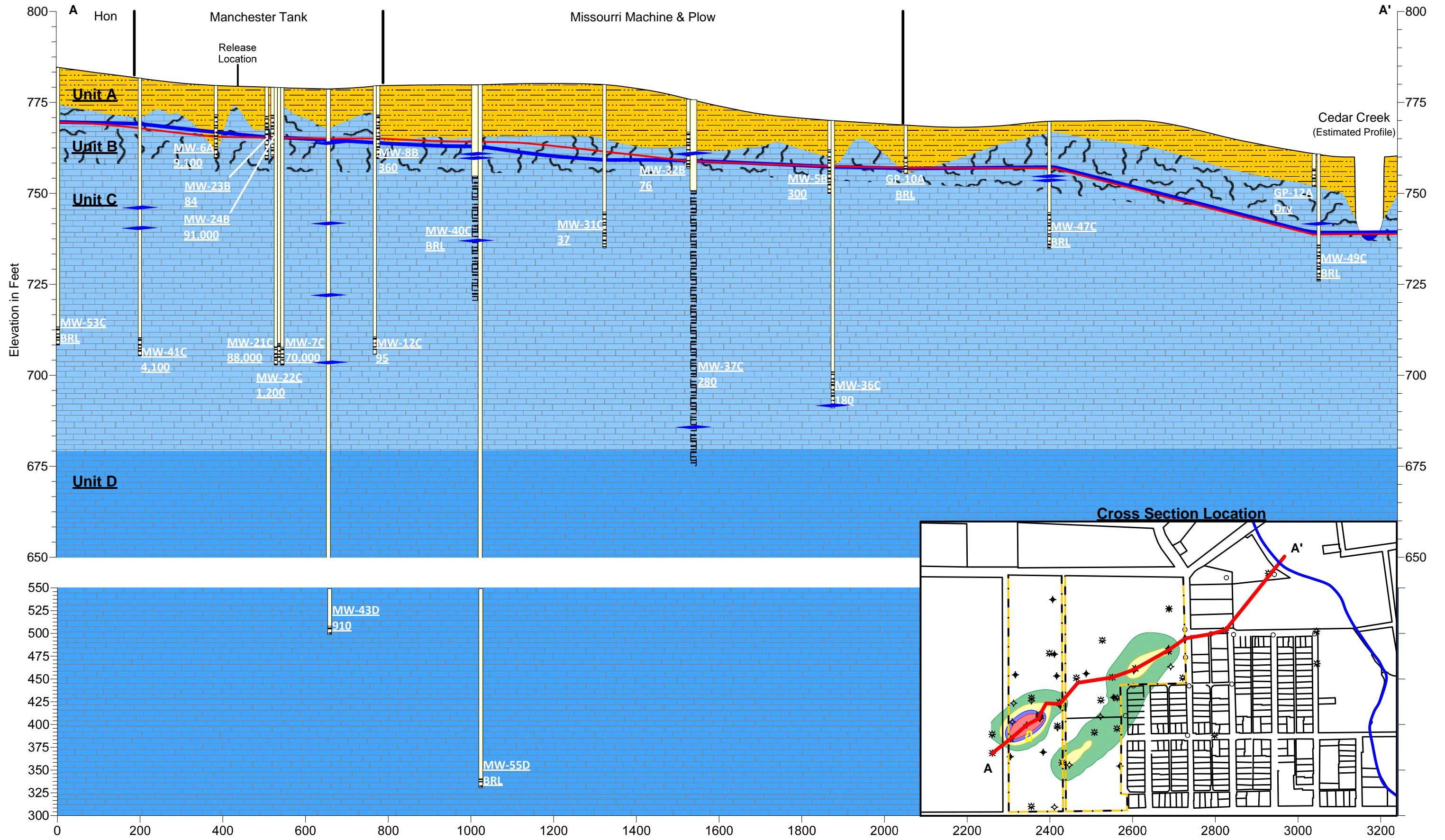


Scale in Feet



Figure 2-10: Soil Gas Sample Locations

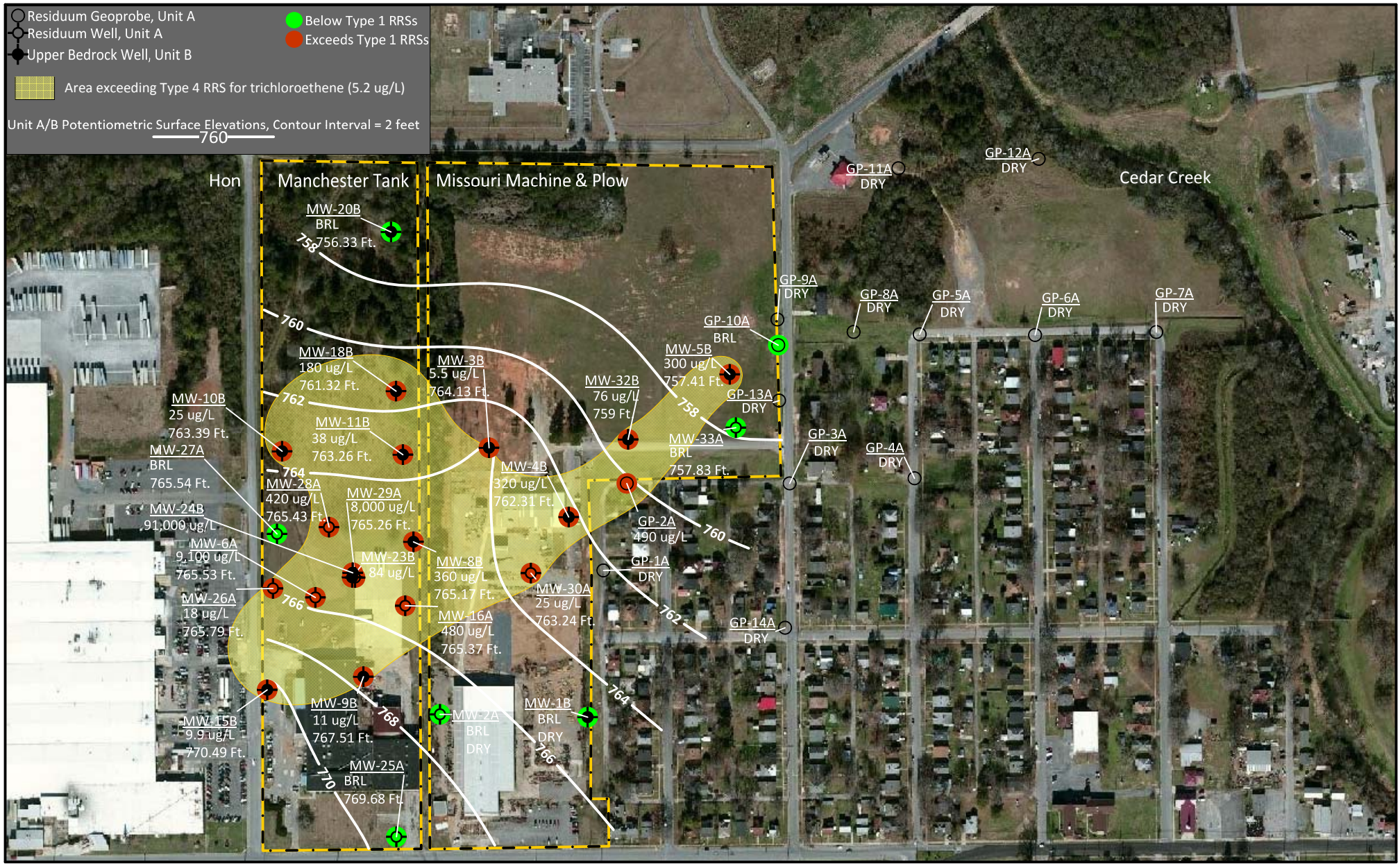
Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



Fractures
 Unit A/B Potentiometric Surface
 Unit C Potentiometric Surface

UNIT A **UNIT B** **UNIT C** **UNIT D**

Figure 3-1: Site Stratigraphy
 Corrective Action Plan
 Former Manchester Tank Company Site (HSI #10765)
 Cedartown, Polk County, Georgia



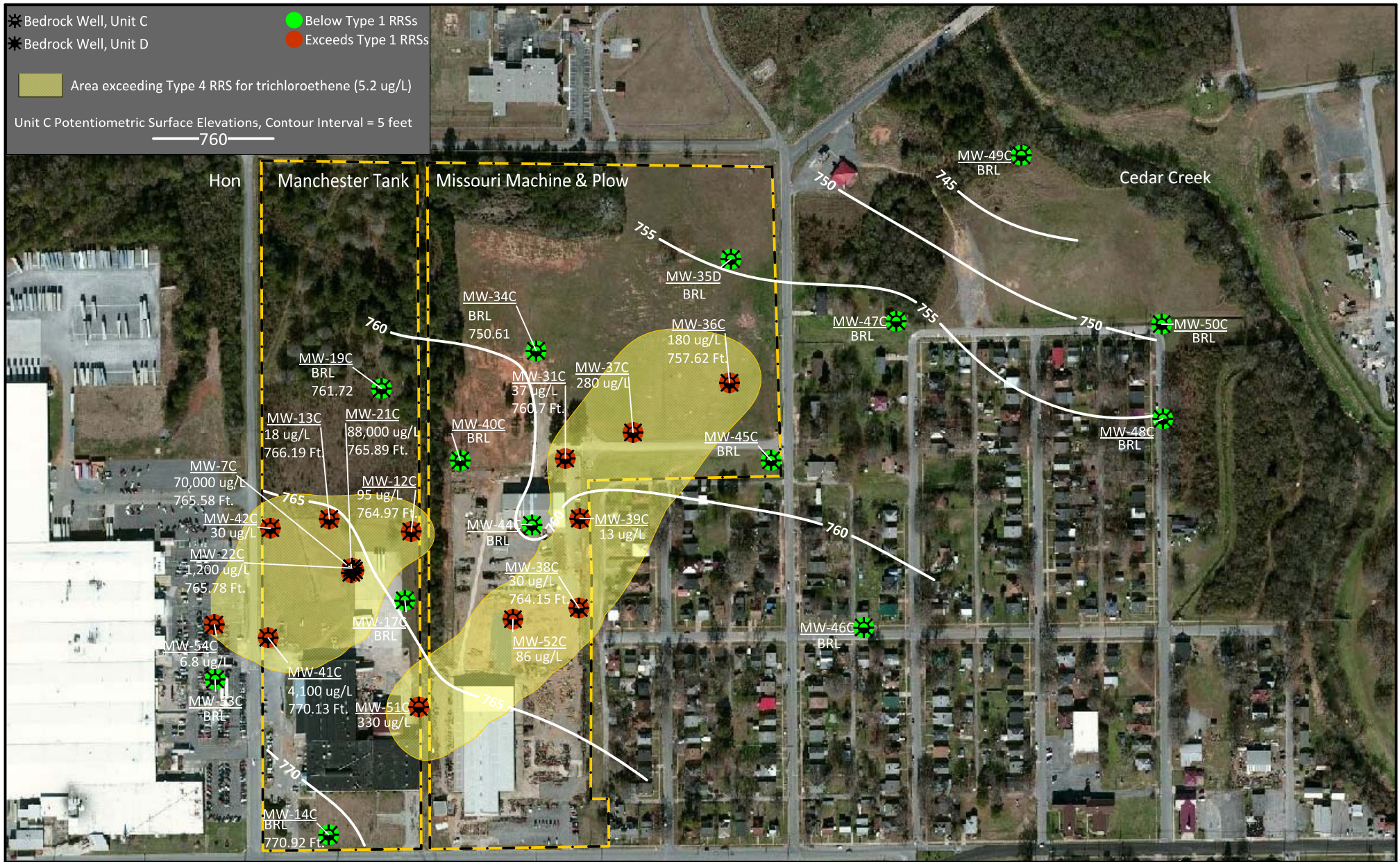
NOTE: Posted values are trichloroethene in groundwater and potentiometric surface.
 Sampling was performed from 6/2012 to 10/2012 and water levels were recorded during 11/2012.



Scale in Feet



Figure 4-1: Unit A/B Type 4 RRS Exceedances
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



NOTE: Posted values are trichloroethene in groundwater and potentiometric surface. Sampling was performed from 6/2012 to 3/2013 and water levels were recorded during 11/2012.



Scale in Feet



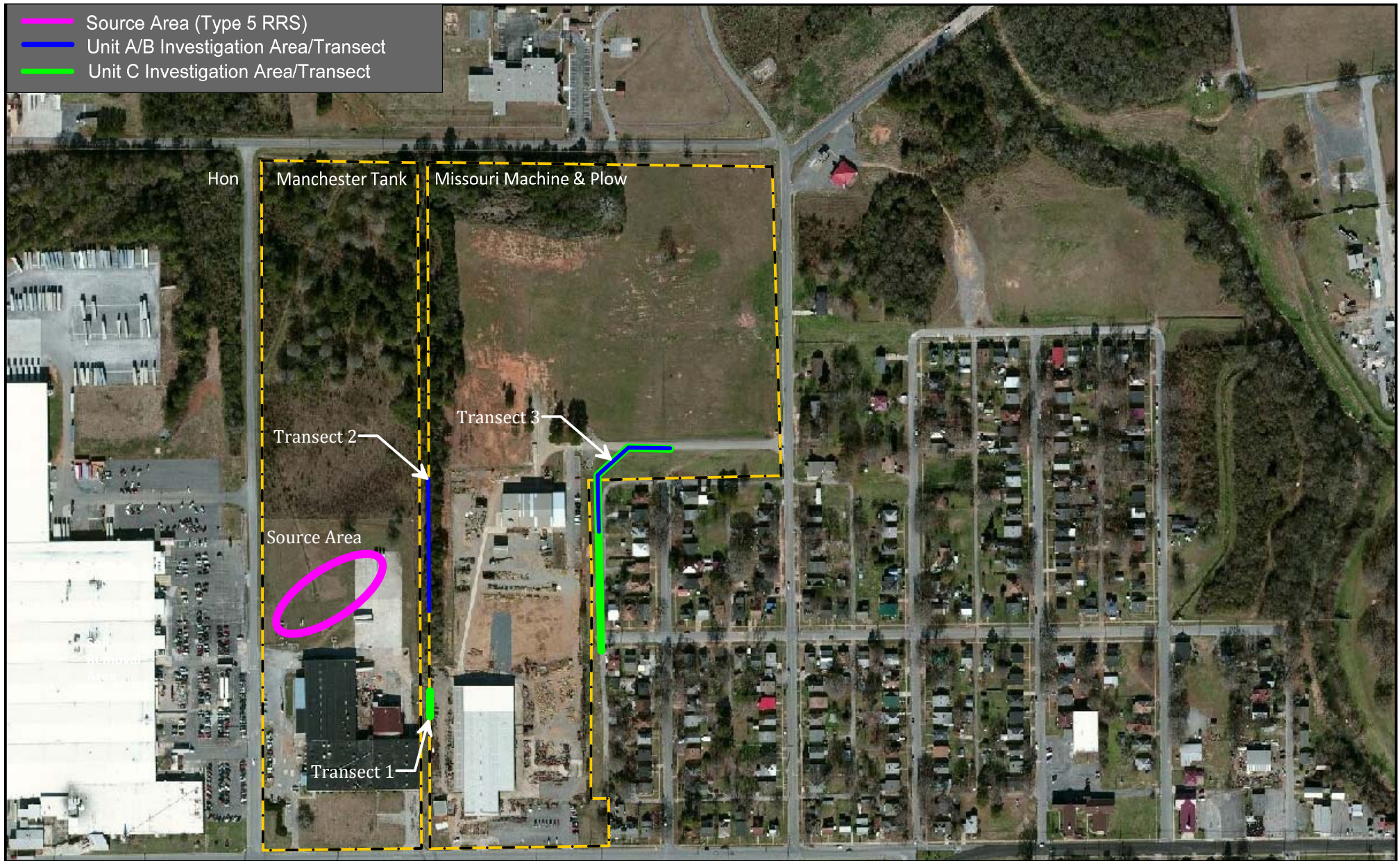
Figure 4-2: Unit C/D Type 4 RRS Exceedances

Corrective Action Plan

Former Manchester Tank Company Site

(HSI #10765)

Cedartown, Polk County, Georgia



Scale in Feet

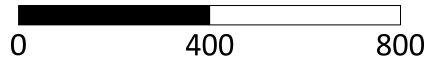
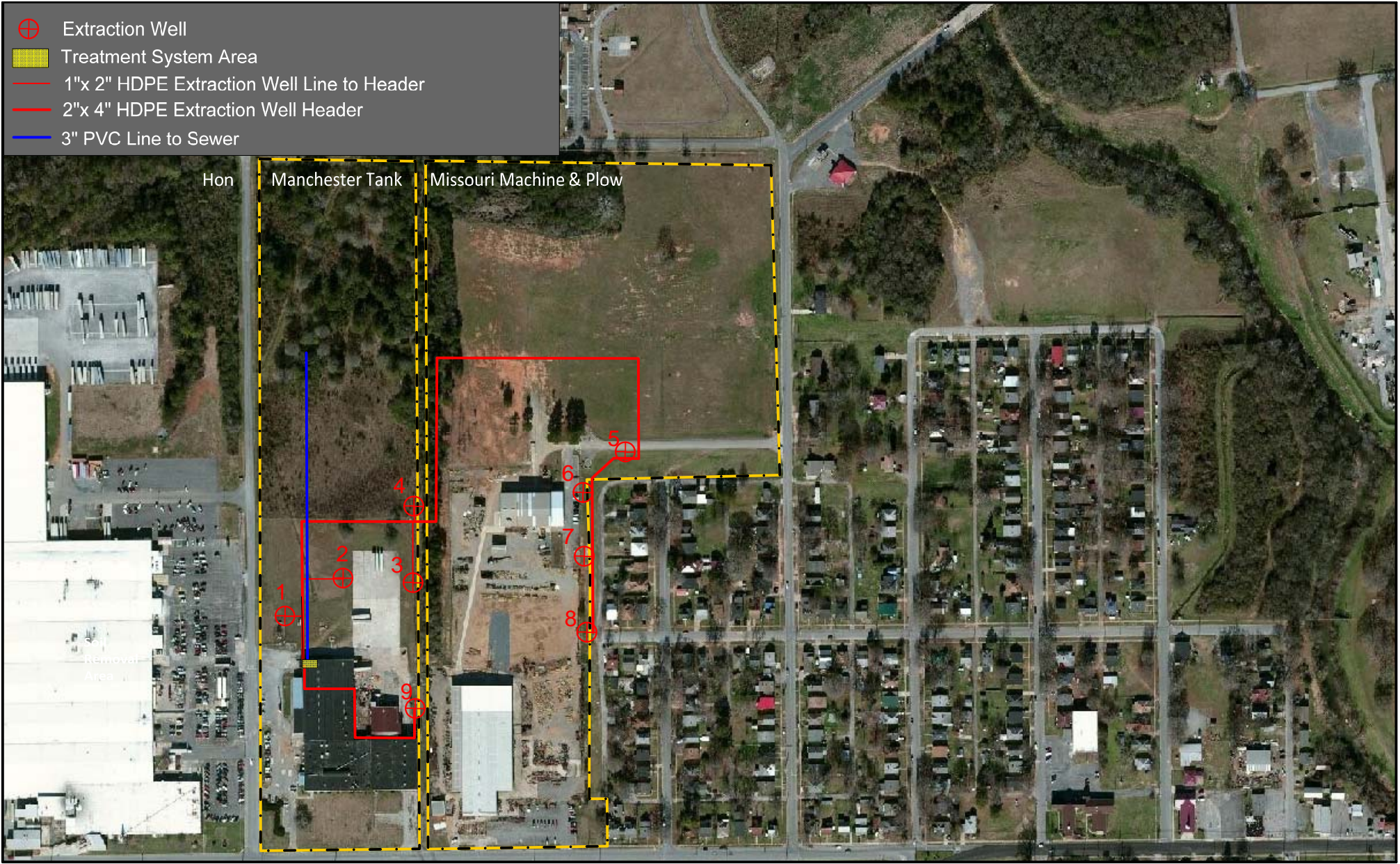


Figure 6-1: Groundwater Extraction Locations

Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia



Scale in Feet

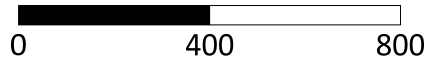


Figure 6-2: Conceptual Extraction Well Layout

Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia

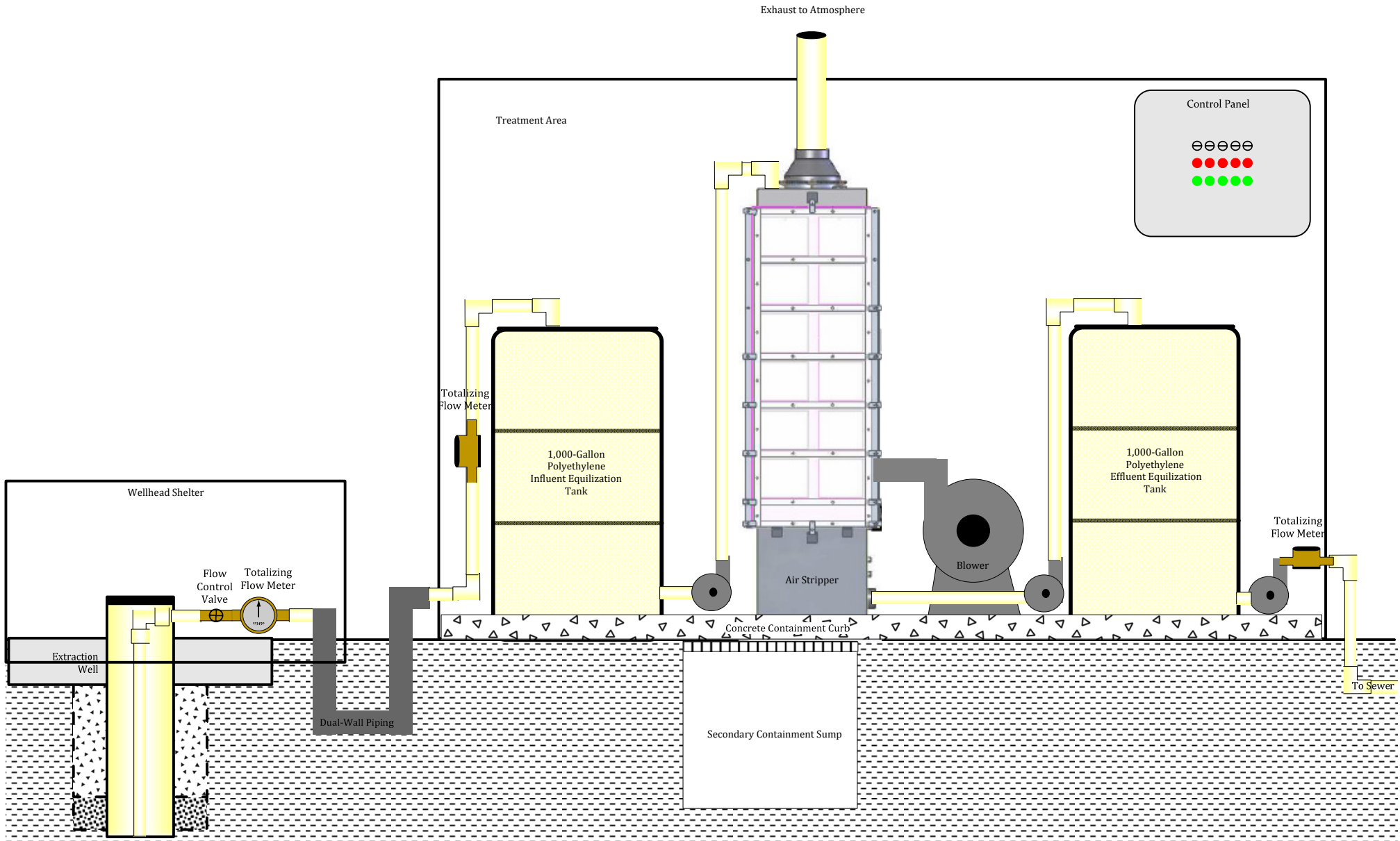


Figure 6-3: Treatment System Schematic
 Corrective Action Plan
 Former Manchester Tank Company Site
 (HSI #10765)
 Cedartown, Polk County, Georgia

Tables

Table 2-1: Monitoring Well Summary and Recent Water Levels

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Well ID	Installed By	Installation Date	Location	Well Type	Unit Code	Top of Casing Elevation (ft AMSL)	Well Diameter (inches)	Surface Casing		Open Interval		Total Depth (ft bgs)	Depth to Water - 11/15/12 (ft bgs)	Groundwater Elevation (ft AMSL)	Remarks
								Diameter (inches)	Depth (ft bgs)	From (ft bgs)	To (ft bgs)				
MW-1B	B&C	2/16/2010	Missouri M&P	Residuum Well	A	784.42	2	NA	NA	8	20	20.2	DRY	-	
MW-2A	B&C	2/17/2010	Missouri M&P	Residuum Well	A	781.25	2	NA	NA	2	13	12.2	DRY	-	
MW-3B	B&C	2/17/2010	Missouri M&P	Residuum Well	A	778.88	2	NA	NA	3	15	15.0	14.8	764.13	
MW-4B	B&C	2/18/2010	Missouri M&P	Residuum Well	A	779.82	2	NA	NA	10	22	21.3	17.5	762.31	
MW-5B	B&C	2/18/2010	Missouri M&P	Residuum Well	A	767.07	2	NA	NA	4	16	16.3	9.7	757.41	
MW-6A	G&A	8/22/2006	Manchester Tank	Residuum Well	A	776.63	2	NA	NA	8	20	22.4	11.1	765.53	
MW-7C	G&A	5/28/2007	Manchester Tank	Bedrock Well	C	776.67	2	4	10.5	68	73.5	74.2	11.3	765.34	Screen set in open-rock bore
MW-8B	G&A	5/22/2007	Manchester Tank	Shallow Rock Well	B	776.02	2	NA	NA	8.5	20	19.4	10.9	765.17	
MW 9B	G&A	5/22/2007	Manchester Tank	Shallow Rock Well	B	778.63	2	NA	NA	16	28.5	28.1	11.1	767.51	Screen set in open rock bore
MW-10B	G&A	5/23/2007	Manchester Tank	Shallow Rock Well	B	774.08	2	NA	NA	4	23.5	23.9	10.7	763.39	
MW-11B	G&A	5/24/2007	Manchester Tank	Shallow Rock Well	B	775.45	2	NA	NA	23.5	33	33.4	12.2	763.26	Screen set in open-rock bore
MW-12C	G&A	4/18/2008	Manchester Tank	Bedrock Well	C	775.93	2	4	50	69	75	75.3	5.8	770.09	Screen set in open-rock bore
MW-13C	G&A	4/18/2008	Manchester Tank	Bedrock Well	C	775.16	2	4	50	69	75	75.4	9.8	765.36	Screen set in open-rock bore
MW-14C	G&A	2/24/2011	Manchester Tank	Bedrock Well	C	783.66	2	4	50	67	75	75.4	12.9	770.76	No screen, diffuser 70'-75'
MW-15B	G&A	2/23/2011	Manchester Tank	Shallow Rock Well	B	783.39	2	NA	NA	8	25	25.2	12.9	770.49	
MW-16A	G&A	2/23/2011	Manchester Tank	Residuum Well	A	776.92	2	NA	NA	8	15	14.9	11.6	765.37	Residuum Injection Well
MW-17C	G&A	2/24/2011	Manchester Tank	Bedrock Well	C	776.92	2	4	50	67	75	72.0	61.2	715.68	No screen, diffuser 70'-75'
MW-18B	G&A	2/23/2011	Manchester Tank	Shallow Rock Well	B	772.92	2	NA	NA	6	18	18.2	11.6	761.32	
MW-19C	G&A	4/28/2011	Manchester Tank	Bedrock Well	C	773.40	2	4	50	72	80	79.5	12.6	760.82	No screen, diffuser 75'-80'
MW 20B	G&A	2/23/2011	Manchester Tank	Shallow Rock Well	B	769.20	2	NA	NA	66	18	19.2	12.9	756.33	
MW-21C	G&A		Manchester Tank	Bedrock Well	C	777.13	1	Unknown	Unknown	Unknown	Unknown	72.0	11.8	765.32	Deep Injection Point
MW-22C	G&A		Manchester Tank	Bedrock Well	C	776.78	1	Unknown	Unknown	Unknown	Unknown	75.5	11.4	765.38	Deep Injection Point
MW-23B	G&A		Manchester Tank	Shallow Rock Well	B	777.04	1	Unknown	Unknown	Unknown	Unknown	19.5	-	-	Shallow Injection Point
MW-24B	G&A		Manchester Tank	Shallow Rock Well	B	776.87	1	Unknown	Unknown	Unknown	Unknown	18.9	-	-	Shallow Injection Point
MW-25A	G&A	8/21/2006	Manchester Tank	Shallow Rock Well	B	782.26	2	NA	NA	88	20	20.4	12.6	769.68	
MW-26A	G&A	8/22/2006	Manchester Tank	Residuum Well	A	778.32	2	NA	NA	8	20	21.8	12.5	765.79	
MW-27A	G&A	8/23/2006	Manchester Tank	Shallow Rock Well	B	775.43	2	NA	NA	8	20	20.4	9.9	765.54	
MW-28A	G&A	8/23/2006	Manchester Tank	Shallow Rock Well	B	775.00	2	NA	NA	8	20	20.6	9.6	765.43	
MW-29A	G&A	8/23/2006	Manchester Tank	Shallow Rock Well	B	776.66	2	NA	NA	8	20	20.4	11.4	765.26	
MW-30A	CDM Smith	7/2/2012	Missouri M&P	Residuum Well	A	780.44	2	NA	NA	23.8	33.8	33.8	17.2	763.24	Pre-Pack Screen
MW-31C	CDM Smith	7/1/2012	Missouri M&P	Bedrock Well	C	779.53	2	NA	NA	35.3	45.3	45.3	20.4	759.17	
MW-32B	CDM Smith	6/27/2012	Missouri M&P	Shallow Rock Well	B	772.97	2	NA	NA	9.0	19.0	19.0	14.0	759.00	
MW-33A	CDM Smith	6/25/2012	Missouri M&P	Residuum Well	A	767.08	1	NA	NA	8.6	13.6	13.6	9.3	757.83	
MW-34B	CDM Smith	7/15/2012	Missouri M&P	Shallow Rock Well	B	775.59	2	NA	NA	48	58	58.0	15.9	759.70	
MW-35D	CDM Smith	7/1/2012	Missouri M&P	Deep Bedrock Well	D	769.93	2	NA	NA	100	120	120.0	13.5	756.39	
MW-36C	CDM Smith	7/2/2012	Missouri M&P	Bedrock Well	C	766.71	2	6	21.5	79	69	79.0	9.4	757.34	Pre-Pack Screen
MW-37C	CDM Smith	6/28/2012	Missouri M&P	Bedrock Well	C	773.11	6	6	25	Open Borehole		101.0	14.2	758.91	
MW-38C	CDM Smith	6/29/2012	Missouri M&P	Bedrock Well	C	779.77	6	6	25	Open Borehole		50.0	16.7	763.12	
MW-39C	CDM Smith	7/1/2012	Missouri M&P	Bedrock Well	C	779.35	6	6	25	Open Borehole		100.0	18.5	760.82	
MW-40C	CDM Smith	7/15/2012	Missouri M&P	Bedrock Well	C	779.06	6	6	25	Open Borehole		60.0	15.8	763.30	

Table 2-1: Monitoring Well Summary and Recent Water Levels

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Well ID	Installed By	Installation Date	Location	Well Type	Unit Code	Top of Casing Elevation (ft AMSL)	Well Diameter (inches)	Surface Casing		Open Interval		Total Depth (ft bgs)	Depth to Water - 11/15/12 (ft bgs)	Groundwater Elevation (ft AMSL)	Remarks
								Diameter (inches)	Depth (ft bgs)	From (ft bgs)	To (ft bgs)				
MW-41C	CDM Smith	7/13/2012	Manchester Tank	Bedrock Well	C	781.38	2	6	25	65.3	75.3	75.3	12.3	769.12	
MW-42C	CDM Smith	7/16/2012	Manchester Tank	Bedrock Well	C	776.67	6	6	25	Open Borehole		160.0	11.0	765.70	
MW-43D	CDM Smith	10/8/2012	Manchester Tank	Deep Bedrock Well	D	776.78	2	6	125	241	251	251.0	13.6	763.20	
MW-44C	CDM Smith	10/11/2012	Missouri M&P	Bedrock Well	C	780.37	2	NA	NA	30.5	40.5	40.5	21.2	759.14	
MW-45C	CDM Smith	10/11/2012	Missouri M&P	Bedrock Well	C	767.26	2	NA	NA	25.4	35.4	35.4	25.3	741.93	
MW-46C	CDM Smith	10/10/2012	Off site	Bedrock Well	C	770.49	2	NA	NA	25.5	35.5	35.5	9.5	760.95	
MW-47C	CDM Smith	10/9/2012	Off site	Bedrock Well	C	762.93	2	NA	NA	25.5	35.5	35.5	5.7	757.26	
MW-48C	CDM Smith	10/10/2012	Off site	Bedrock Well	C	766.75	2	NA	NA	35.7	25.7	35.7	11.5	755.22	
MW-49C	CDM Smith	10/9/2012	Off site	Bedrock Well	C	764.38	2	NA	NA	35.4	25.4	35.4	25.3	739.07	
MW-50C	CDM Smith	10/9/2012	Off site	Bedrock Well	C	765.25	2	NA	NA	35.4	25.4	35.4	16.4	748.83	
MW-51C	CDM Smith	10/11/2012	Manchester Tank	Bedrock Well	C	779.73	2	NA	NA	25.4	15.4	25.4	14.2	765.52	
MW-52C	CDM Smith	10/11/2012	Missouri M&P	Bedrock Well	C	780.05	2	NA	NA	30.5	40.5	40.5	16.6	763.41	

Notes:

B&C - Brown & Caldwell

G&A - Gallett & Associates

Missouri M&P - Missouri Machine and Plow

bgs - below ground surface

ft AMSL - feet above mean sea level (NAVD 1988)

NA - Not Applicable

Table 2-2: Groundwater Sampling Results Summary

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Well ID	Sample Date	Compounds and Type 1 Risk Reduction Standards in ug/L														
		1,1,1-TCA 200	1,1,2-TCA 5	1,1-DCA 4,000	1,1-DCE 7	1,2-DCA 5	cis-1,2-DCE 70	trans-1,2-DCE 100	Acetone 4,000	Isopropylbenzene *	MEK 2,000	PCE 5	Toluene 1,000	TCE 5	Vinyl Chloride 2	Xylenes 10,000
Unit A / B Wells and Borings																
GP-2A	10/2/2012	86			16		320	5.6						490		
GP-10A	10/3/2012															
MW-1B	7/17/2012															
MW-4B	7/17/2012	43			9.7		170							320		
MW-5B	7/16/2012	34			13		180							300		
MW-6A	7/18/2012	49	11	110	440	5.2	11,000	160			7.3		9,100	93		
MW-8B	7/18/2012	33			18		480	7						360		
MW-9B	7/18/2012						190							11		
MW-10B	7/16/2012						8.8							25		
DUP-1	7/16/2012						6.6							24		
MW-11B	7/16/2012						130							38		
MW-15B	7/18/2012						52							9.9		
MW-16A	7/18/2012	37			25		830	11						480		
MW-18B	7/16/2012	5.8		5.3	10		620	6						180		
MW-20B	7/16/2012															
MW-24B	7/19/2012	1,200	81	520	2,300	35	140,000	2,100			19	57	91,000	330	33.3	
MW-25A	7/17/2012						6.4									
MW-26A	7/18/2012						73							18		
MW-27A	7/18/2012															
DUP-3	7/18/2012															
MW-28A	7/18/2012	23			17		210							420		
MW-29A	7/18/2012	300	6	74	270		13,000	210						8,000	2.7	
DUP-4	7/18/2012	340	7.5	100	330		15,000	240						8,100	3	
MW-30A	7/3/2012						11							21		
	7/17/2012						12							25		
MW-32B	7/1/2012	16					80							96	2.6	
	7/17/2012	21		5			160							76	3.4	
MW-33A	6/27/2012															
	7/17/2012															
MW-34B	7/17/2012															

Table 2-2: Groundwater Sampling Results Summary

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Well ID	Sample Date	Compounds and Type 1 Risk Reduction Standards in ug/L													
		1,1,1-TCA 200	1,1,2-TCA 5	1,1-DCA 4,000	1,1-DCE 7	1,2-DCA 5	cis-1,2-DCE 70	trans-1,2-DCE 100	Acetone 4,000	Isopropylbenzene *	MEK 2,000	PCE 5	Toluene 1,000	TCE 5	Vinyl Chloride 2
Unit C Wells															
MW-7C	7/18/2012	200	24	510	1,400	17	63,000	600				6.8	7.7	70,000	50
MW-12C	7/18/2012						80							95	
MW-13C	7/18/2012						21							18	
MW-14C	7/18/2012														
MW-17C	7/18/2012														
MW-19C	7/16/2012														
MW-21C	7/19/2012	98	12	340	1,000	9.3	29,000	270				22	88,000	62	
MW-22C	7/19/2012	20		16	14		960	5.7	680		260		1,200		
MW-31C	7/1/2012						16						19		
	7/17/2012	5.7					25						37		
DUP-2	7/17/2012						23						40		
MW-36C	7/16/2012				9.2		55						180		
MW-37C	7/1/2012						9.4						15		
	7/17/2012	21					130						280		
MW-38C	7/2/2012	20			10		150						290		
	7/17/2012						17						30		
MW-39C	7/1/2012				7.6		51						180		
	7/2/2012														
	7/18/2012												13		
MW-40C	7/17/2012														
MW-41C	7/18/2012	5.6		86	320		7,900	88					9,200	310	
	10/30/2012			86	270		6,300	65					6,200	150	
	2/28/2013			91	120		4,900	54					4,100	100	
MW-42C	1/23/2013												30		
MW-44C	10/30/2012														
MW-45C	10/30/2012														
MW-46C	10/15/2012														
MW-47C	10/15/2012														
MW-48C	10/15/2012														
MW-49C	10/15/2012														
MW-50C	10/15/2012														
MW-51C	10/15/2012						250			9.9			330	35	
MW-52C	10/15/2012						21						86		
MW-53C	3/6/2013														
MW-54C	3/6/2013												6.8		

Table 2-2: Groundwater Sampling Results Summary

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Well ID	Sample Date	Compounds and Type 1 Risk Reduction Standards in ug/L													
		1,1,1-TCA 200	1,1,2-TCA 5	1,1-DCA 4,000	1,1-DCE 7	1,2-DCA 5	cis-1,2-DCE 70	trans-1,2-DCE 100	Acetone 4,000	Isopropylbenzene *	MEK 2,000	PCE 5	Toluene 1,000	TCE 5	Vinyl Chloride 2
Unit D Wells															
MW-35D	7/2/2012														
	7/17/2012														
MW-43D	10/15/2012	26		10	54		290					20	1,400		20.4
	2/28/2013	16		9.9	52		240					8.5	910		6.3
MW-55D	5/23/2013														

Notes:

DCA - Dichloroethane

PCE - Tetrachloroethene

DCE - Dichloroethene

TCA - Trichloroethane

MEK - Methy Ethyl Ketone

TCE - Trichloroethene

All units are micrograms per liter (ug/L)

Blank cells indicate that the compound was not detected above the practical quantitation limit (PQL). The PQL for all samples is 5 ug/L with the exception of acetone (50 ug/L), MEK (50 ug/L), and vinyl chloride (2 ug/L).

Highlighted cells indicate the concentration is greater than the EPD Type 1 Risk Reduction Standard (residential, standard exposure assumptions).

* A Risk Reduction Standard does not exist for isopropylbenzene. In this case, the RRS is the PQL, or 5 ug/L.

Table 2-3: Soil Data Summary

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Metal	As	Ba	Be	Cd	Cr	Co	Pb	V	Zn
EPD's Type 1 RRS	20	1,000	2	2	100	20	75	100	100
Site-Specific Background ⁽¹⁾	41	270	3.6	(3)	78	40	97	130	120
Manchester Background UPL95 ⁽²⁾	63	2,700	9.6	(3)	77	140	250	200	240
Historical Sampling Results (2007)									
SB-1 (0-2')	35.9	1,810	<1.11	<1.11	46.7	58.9	108	133	25
SB-1 (5-7')	15.9	86	<5.95	<5.95	62.4	<5.95	120	150	89
SB-2 (0-2')	16.4	48.4	<1.22	<1.22	108	25.8	78.3	91	155
SB-2 (5-7')	30.4	70.1	<5.81	<5.81	76.1	12.5	106	181	160
SB-2 (10-12')	46.2	248	3.11	<1.25	71.6	20	80.7	109	146
SB-3 (0-2')	15.9	101	<1.11	<1.11	105	20.2	116	95	41
SB-3 (5-7')	36.9	1,860	<5.56	6 ⁽⁴⁾	38.4	124	312 ⁽⁴⁾	197	70
SB-3 (14-16')	20.4	96.8	3.08	<1.35	25.5	8	46.2	68	94
SB-4 (0-2')	7.13	111	<1.1	<1.1	25.6	10.6	36.5	36	23
SB-4 (5-6')	24.4	218	1.7	<1.19	27.7	15.1	66.4	85	55
SB-5 (0-2')	13.5	134	<1.19	<1.19	288	10.9	74.6	87	137
SB-5 (5-7')	24	254	<5.95	<5.95	98.8	15.2	169	162	43
SB-5 (10-11')	25	94.9	2.69	<1.28	81.4	10.5	70.3	94	91
SB-6 (0-2')	<12.2	211	<6.1	<6.1	82.2	12.2	104	156	88
SB-6 (5-7')	23.4	267	<6.41	<6.41	75.1	16.1	102	159	50
SB-7 (0-2')	14.3	140	<1.14	<1.14	231	16.3	104	117	176
SB-7 (5-7')	21.8	305	1.21	<1.14	162	19.2	108	114	133
SB-7 (14-16')	45.4	56.2	4.2	1.32	56.2	21.1	122	122	208
SB-9 (10-12')	13.5	73.8	1.57	<1.14	35.2	4.85	40.8	74	43
Recent Sampling Results (2013)									
SB-10 (1')					48.3				
SB-11 (1')					135				
SB-11 (6')				<2.73			31.6		
SB-12 (1')					73.3				
SB-13 (1')					157				
SB-13 (6')					64.1				
SB-14 (1')				<2.67	62.7		66.8		
SB-15 (1')				<2.64	125		70.3		
SB-16 (1')				<2.9	31.7		34.8		
SB-17 (1')				<2.77	41.3		44.5		
SB-18 (1')				<2.87	63.4		47.9		

Notes

- 1 The site-specific background concentration is the average plus two standard deviations of concentrations from Manchester Tank background samples and Missouri Machine and Plow site samples, which have been considered background by EPD.
- 2 95% confidence upper prediction limit (UPL95) for the Manchester background samples. Exceedances are highlighted.
- 3 Insufficient number of detections.
- 4 Excluded as a chemical of potential concern as an outlier

Table 2-4: Soil Vapor Data Summary

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Analyte & Groundwater Concentration (ug/L) ⁽¹⁾		Soil Gas Sample Results					
		SG-1		SG-2		SG-3	
		Result (ug/m ³)	RL	Result (ug/m ³)	RL	Result (ug/m ³)	RL
1,1,1-Trichloroethane	86	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01
1,1,2-Trichloroethane	BRL	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01
1,1-Dichloroethane	BRL	BRL	8.1E+00	BRL	8.1E+00	BRL	8.1E+00
1,1-Dichloroethene	16	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00
1,2-Dichloroethane	BRL	BRL	8.1E+00	BRL	8.1E+00	BRL	8.1E+00
Acetone	BRL	BRL	1.2E+02	BRL	1.2E+02	9.7E+02	1.2E+02
Benzene	BRL	BRL	6.4E+00	BRL	6.4E+00	2.5E+02	6.4E+00
Carbon disulfide	BRL	BRL	1.6E+01	2.5E+01	1.6E+01	BRL	1.6E+01
cis-1,2-Dichloroethene	320	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00
Cyclohexane	BRL	BRL	6.9E+00	BRL	6.9E+00	7.3E+01	6.9E+00
Methyl Ethyl Ketone	BRL	1.6E+01	1.5E+01	BRL	1.5E+01	4.9E+01	1.5E+01
n-Butane	NA	1.7E+01	1.2E+01	BRL	1.2E+01	2.5E+03	1.2E+01
n-Butyl benzene	BRL	1.1E+01	1.1E+01	BRL	1.1E+01	BRL	1.1E+01
n-Heptane	NA	BRL	8.2E+00	BRL	8.2E+00	1.1E+02	8.2E+00
n-Hexane	BRL	BRL	7.0E+00	BRL	7.0E+00	2.8E+02	7.0E+00
Tetrachloroethene	BRL	BRL	2.0E+00	BRL	2.0E+00	BRL	2.0E+00
Toluene	BRL	2.6E+01	7.5E+00	3.3E+01	7.5E+00	4.5E+01	7.5E+00
trans-1,2-Dichloroethene	5.6	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00
Trichloroethene	490	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01
Vinyl Chloride	BRL	BRL	5.1E+00	BRL	5.1E+00	BRL	5.1E+00
Xylene (total)	BRL	1.0E+01	8.7E+00	2.7E+01	8.7E+00	2.0E+01	8.7E+00

¹ Groundwater concentration is from adjacent Unit A sample GP-2A.

ug/m³ - micrograms per cubic meter

RL - Reporting Limit

BRL - Below Reporting Limit

Bold analytes have been previously detected in groundwater.

NA - Not analyzed

Table 4-1: Soil Type 3 RRSs

Corrective Action Plan

Former Manchester Tank Facility (HSI #10765)

Cedartown, Polk County, Georgia

RAGS Equation 7

Commercial/Industrial Soil - Noncarcinogenic Effects

$$C_{soil}^1 = \frac{THI \times BW \times AT \times 365 \text{ days/year}}{EF \times ED \times [(1/RfD_o \times 10^{-6} \text{ kg/mg} \times IR_{soil}) + (1/RfD_i \times IR_{air} \times \{1/VF + 1/PEF\})]}$$

Parameter	Definition (units)	Default Value	Source
C _{soil}	Concentration in soil (mg/kg)	Calculated	Not applicable
THI	Target hazard index (unit less)	1	RAGS Part B
RfD _o	Oral chronic reference dose ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
RfD _i	Inhalation chronic reference dose ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
BW	Adult body weight (kg)	70	RAGS Part B
AT	Averaging time (yr)	25	RAGS Part B
EF	Exposure frequency (dy/yr)	250	RAGS Part B
ED	Exposure Duration (yr)	25	RAGS Part B
IR _{air}	Workday inhalation rate (m ³ /dy)	20	RAGS Part B
IR _{soil}	Daily soil ingestion rate (mg/dy)	50	RAGS Part B
PEF	Particulate emission factor (m ³ /kg)	4.63E+09	RAGS Part B
RfC _i	Inhalation reference concentration (mg/m ³)	(RfD _i X 70) / 20 m ³ /d	Not applicable

RAGS Equation 6

Commercial/Industrial Soil - Carcinogenic Effects

$$C_{soil}^1 = \frac{TR \times BW \times AT \times 365 \text{ days/year}}{EF \times ED \times [(SF_i \times IR_{air} \times \{1/VF + 1/PEF\}) + (SF_o \times 10^{-6} \text{ kg/mg} \times IR_{soil})]}$$

Parameter	Definition (units)	Default Value	Source
C _{soil}	Concentration in soil (mg/kg)	Calculated	Not applicable
TR _{A/B}	Class A/B target excess lifetime cancer risk (unit less)	1.E-05	HSRA Rules
TR _C	Class C target excess lifetime cancer risk (unit less)	1.E-04	HSRA Rules
SF _i	Inhalation cancer slope factor ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
SF _o	Oral cancer slope factor ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
BW	Adult body weight (kg)	70	RAGS Part B
AT	Averaging time (yr)	70	RAGS Part B
EF	Exposure frequency (dy/yr)	250	RAGS Part B
ED	Exposure Duration (yr)	25	RAGS Part B
IR _{air}	Daily inhalation rate (m ³ /dy)	20	RAGS Part B
IR _{soil}	Daily soil ingestion rate (mg/dy)	50	RAGS Part B
PEF	Particulate emission factor (m ³ /kg)	4.63E+09	RAGS Part B

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Compound	CAS No.	Maximum Detected Concentration (mg/kg)	Item 1(i) HSRA Appendix I (mg/kg)	Item 1(ii) HSRA Appendix III Table 1 x 100	Groundwater Protection Soil RRS Higher of 1 (i) and (ii)	Carcinogen Class - TR	RfD _o	SF _o	RfC _i	RfD _i	IUR	SF _i	C _{soil} Non-car (mg/kg)	C _{soil} Car (mg/kg)	Soil RRS 2 feet or less (mg/kg)	Soil RRS depth to GW or less (mg/kg)
Cadmium	7440439	6	39	0.5	39	B 1.E-05	1.0E-03		1.0E-05	2.86E-06	1.80E-03	6.3	1,984	105,152	39	39
Chromium	7440473	288	1,200	10	1,200	None	1.5E+00						3,066,000		1,200	1,200
Lead	7439921	312	400	2	400	B 1.E-05									400	400

CAS - Chemical Abstract System

HSRA - Hazardous Site Response Act

Item 1(i) - Notification Concentration in mg/kg

Appendix III Table 1 - Groundwater Criteria in mg/L

DATA SOURCE:

U.S. EPA Regional Screening Level Summary Table, http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm, May 2013.

¹ Volatization Factor (VF) excluded from calculation because all COPC are metals and do not vol:

Table 4-2: Groundwater Type 4 RRSs

Corrective Action Plan

Former Manchester Tank Facility (HSI #10765)

Cedartown, Polk County, Georgia

RAGS Equation 2

Commercial/Industrial Soil - Noncarcinogenic Effects

$$C_{\text{water}} = \frac{\text{THI} \times \text{BW} \times \text{AT} \times 365 \text{ days/year}}{\text{EF} \times \text{ED} \times [((1/\text{RfD}_i) \times \text{K} \times \text{IR}_a) + ((1/\text{RfD}_o) \times \text{IR}_w)]}$$

Parameter	Definition (units)	Default Value	Source
C _{water}	Concentration in groundwater (mg/L)	Calculated	Not applicable
THI	Target hazard index (unit less)	1	RAGS Part B
RfD _o	Oral chronic reference dose ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
RfD _i	Inhalation chronic reference dose ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
BW	Adult body weight (kg)	70	RAGS Part B
AT	Averaging time (yr)	25	RAGS Part B
EF	Exposure frequency (dy/yr)	250	RAGS Part B
ED	Exposure Duration (yr)	25	RAGS Part B
IR _a	Workday inhalation rate (m ³ /dy)	20	RAGS Part B
K	Water to air volatilization factor (L/m ³)	0.5	RAGS Part B
IR _w	Ingestion rate of water (L/Day)	1	RAGS Part B
RfC _i	Inhalation reference concentration (mg/m ³)	RfD _i X 70) / 20 m ³ /d	Not applicable

RAGS Equation 1

Commercial/Industrial Soil - Carcinogenic Effects

$$C_{\text{water}} = \frac{\text{TR} \times \text{BW} \times \text{AT} \times 365 \text{ days/year}}{\text{EF} \times \text{ED} \times [(\text{SF}_i \times \text{IR}_a \times \text{K}) + (\text{SF}_o \times \text{IR}_w)]}$$

Parameter	Definition (units)	Default Value	Source
C _{soil}	Concentration in soil (mg/kg)	Calculated	Not applicable
TR _{A/B}	Class A/B target excess lifetime cancer risk (unit less)	1.E-05	HSRA Rules
SF _i	Inhalation cancer slope factor ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
SF _o	Oral cancer slope factor ((mg/kg-dy) ⁻¹)	Chemical-specific	Not applicable
BW	Adult body weight (kg)	70	RAGS Part B
AT	Averaging time (yr)	70	RAGS Part B
EF	Exposure frequency (dy/yr)	250	RAGS Part B
ED	Exposure Duration (yr)	25	RAGS Part B
IR _a	Daily inhalation rate (m ³ /dy)	20	RAGS Part B
K	Water to air volatilization factor (L/m ³)	0.5	RAGS Part B
IR _w	Ingestion rate of water (L/day)	1	RAGS Part B
IUR	Inhalation unit risk factor (ug/m ³)	(SF _i x 20)/70,000	RAGS Part B

0

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Compound	CAS No.	Maximum Detected Concentration (ug/L)	Type 1/3 RRS Table 1 HSRA Appendix III (Type 3 RRS)	RfD _o	SF _o	RfC _i	RfD _i	IUR	SF _i	C _{water} Non-car (ug/L)	C _{water} Car (mg/L)	GW RRS (mg/L)	RRS Type (3/4)	Remarks
1,1,1-Trichloroethane	71556	1,200	200	2		5	1.43			13,627		13,627	4	
1,1,2-Trichloroethane	79005	81	5	0.004	0.057	2E-04	5.71E-05	1.6E-05	0.056	0.6	4.6	5	3	Type 4 non-car concentration below PQL
1,1-Dichloroethene	75354	2,300	7	0.05		0.2	5.71E-02			524		524	4	
1,2-Dichloroethane	107062	35	5	0.006	0.091	0.007	2.00E-03	2.6E-05	0.091	19.8	2.9	5	3	Type 4 car. concentration below PQL
cis-1,2-Dichloroethene	156592	140,000	70	0.002						204.4*		204	4	
trans-1,2-Dichloroethene	156605	2,100	100	0.02		0.06	0.017			161		161	4	
Tetrachloroethene	127184	19	5	0.006	0.0021	0.04	0.011	2.6E-07	0.001	98	256	98	4	
Trichloroethene	79016	91,000	5	5.0E-04	0.046	0.002	5.71E-04	4.1E-06	0.014	5.2	15	5.2	4	
Vinyl Chloride	75014	330	2	0.003	0.72	0.1	2.86E-02	4.40E-06	0.015	150	3.3	3.3	4	

CAS - Chemical Abstract System

HSRA - Hazardous Site Response Act

Item 1(i) - Notification Concentration in mg/kg

Appendix III Table 1 - Groundwater Criteria in mg/L

* The calculation for the noncarcinogenic concentration of cis-1,2-DCE excludes the inhalation factor because the RfC_i has not been derived in IRIS or PPRTV documentation

IRIS - Integrated Risk Information System

PPRTV - Provisional Peer Reviewed Toxicity Values

PQL - Laboratory Practical Quantitation Limit

DATA SOURCE:

U.S. EPA Regional Screening Level Summary Table, http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm, May 2013.

Table 4-3: Soil Vapor Risk Summary

Corrective Action Plan

Former Manchester Tank Site (HSI #10765)

Cedartown, Polk County, Georgia

Analyte & Groundwater Concentration (ug/L) ⁽¹⁾	Residential Target Indoor Air Concentration (ug/m ³)	Residential Target Soil Gas Concentration (ug/m ³)	Soil Gas Sample Results						Risk Calculations			
			SG-1		SG-2		SG-3		Calculated Maximum Indoor Air Concentration (ug/m ³)	Calculated Vapor Intrusion Carcinogenic Risk	Calculated Vapor Intrusion Hazard Quotient	
			Result (ug/m ³)	RL	Result (ug/m ³)	RL	Result (ug/m ³)	RL				
1,1,1-Trichloroethane	86	5.2E+03	5.2E+04	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01	RL / 10 = 1.1	--	2.1E-04
1,1,2-Trichloroethane	BRL	2.1E-01	2.1E+00	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01	RL / 10 = 1.1	7.2E-06	5.3E+00
1,1-Dichloroethane	BRL	1.5E+01	1.5E+02	BRL	8.1E+00	BRL	8.1E+00	BRL	8.1E+00	RL / 10 = 0.81	5.3E-07	--
1,1-Dichloroethene	16	2.1E+02	2.1E+03	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00	RL / 10 = 0.79	--	3.8E-03
1,2-Dichloroethane	BRL	9.4E-01	9.4E+00	BRL	8.1E+00	BRL	8.1E+00	BRL	8.1E+00	RL / 10 = 0.81	8.7E-06	1.1E-01
Acetone	BRL	3.2E+04	3.2E+05	BRL	1.2E+02	BRL	1.2E+02	9.7E+02	1.2E+02	9.7E+01	--	3.0E-03
Benzene	BRL	3.1E+00	3.1E+01	BRL	6.4E+00	BRL	6.4E+00	2.5E+02	6.4E+00	2.5E+01	8.0E-05	8.0E-01
Carbon disulfide	BRL	7.3E+02	7.3E+03	BRL	1.6E+01	2.5E+01	1.6E+01	BRL	1.6E+01	2.5E+00	--	3.4E-03
cis-1,2-Dichloroethene	320	--	--	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00	RL / 10 = 0.79	--	--
Cyclohexane	BRL	6.3E+03	6.3E+04	BRL	6.9E+00	BRL	6.9E+00	7.3E+01	6.9E+00	7.3E+00	--	1.2E-03
Methyl Ethyl Ketone	BRL	5.2E+03	5.2E+04	1.6E+01	1.5E+01	BRL	1.5E+01	4.9E+01	1.5E+01	4.9E+00	--	9.4E-04
n-Butane	NA	--	--	1.7E+01	1.2E+01	BRL	1.2E+01	2.5E+03	1.2E+01	2.5E+02	--	--
n-Butyl benzene	BRL	--	--	1.1E+01	1.1E+01	BRL	1.1E+01	BRL	1.1E+01	1.1E+00	--	--
n-Heptane	NA	--	--	BRL	8.2E+00	BRL	8.2E+00	1.1E+02	8.2E+00	1.1E+01	--	--
n-Hexane	BRL	7.3E+02	7.3E+03	BRL	7.0E+00	BRL	7.0E+00	2.8E+02	7.0E+00	2.8E+01	--	3.8E-02
Tetrachloroethene	BRL	4.2E+01	4.2E+02	BRL	2.0E+00	BRL	2.0E+00	BRL	2.0E+00	RL / 10 = 0.2	2.1E-08	4.8E-03
Toluene	BRL	5.2E+03	5.2E+04	2.6E+01	7.5E+00	3.3E+01	7.5E+00	4.5E+01	7.5E+00	4.5E+00	--	8.6E-04
trans-1,2-Dichloroethene	5.6	6.3E+01	6.3E+02	BRL	7.9E+00	BRL	7.9E+00	BRL	7.9E+00	RL / 10 = 0.79	--	1.3E-02
Trichloroethene	490	2.1E+00	2.1E+01	BRL	1.1E+01	BRL	1.1E+01	BRL	1.1E+01	RL / 10 = 1.1	4.7E-06	5.3E-01
Vinyl Chloride	BRL	1.6E+00	1.6E+01	BRL	5.1E+00	BRL	5.1E+00	BRL	5.1E+00	RL / 10 = 0.51	3.2E-06	4.9E-03
Xylene (total)	BRL	1.0E+02	1.0E+03	1.0E+01	8.7E+00	2.7E+01	8.7E+00	2.0E+01	8.7E+00	2.70E+00	--	2.6E-02

¹ Groundwater concentration is from adjacent Unit A sample GP-2A.

ug/m³ - micrograms per cubic meter

RL - Reporting Limit

BRL - Below Reporting Limit

Bold analytes have been previously detected in groundwater.

NA - Not analyzed

-- Insufficient toxicity data to calculate

Table 5-1: Source Area Groundwater Technology Screening

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Technology	Description	Ability to Meet RRSs	Effectiveness on DNAPL	Effectiveness on Bedrock	O&M Requirements	Secondary Effects	Screening
Groundwater Extraction	Extraction of contaminated groundwater and with treatment on site	Unlikely to meet RRSs in source area	Not effective	Effective in controlling migration but not source area treatment	Long-term (several years) but moderate	None expected	Retained for cost analysis
In Situ Chemical Oxidation (ISCO)	Chemical oxidation of hazardous constituents in place through injection of an oxidizing agent	Unlikely without hydrofracturing	Unlikely to be effective without hydrofracturing	Unlikely to be effective without hydrofracturing	Limited beyond long-term monitoring	Hydrofracturing is likely to cause migration of VOCs into otherwise uncontaminated areas. Additionally, this alternative involves handling and injecting hazardous materials (i.e., oxidizing agents)	Eliminated from further consideration due to potential secondary effects
In Situ Biological Treatment	Microbial degradation of hazardous constituents in place through the injection of oxygen, nutrients, and/or microorganisms	Unlikely without hydrofracturing	Unlikely to be effective without hydrofracturing	Unlikely to be effective without hydrofracturing	Limited beyond long-term monitoring	Hydrofracturing is likely to cause migration of VOCs into otherwise uncontaminated areas.	Eliminated from further consideration due to potential secondary effects
Electrical Resistance Heating (ERH)	Evaporation of hazardous constituents through heating soil and groundwater using electricity	Capable of meeting the RRSs	Effective	Effective though geologic conditions present several challenges	Short-term (typically less than a year) but intensive	None expected	Retained for cost analysis

Table 5-2: Groundwater Outside of the Source Area Technology Screening

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

Technology	Description	Performance Reliability	Effectiveness of Residuum and Bedrock	Appropriateness for Observed Concentrations	O&M Requirements	Secondary Effects	Screening
ISCO Barrier	Chemical oxidation of hazardous constituents through a downgradient barrier	Reliable	Unlikely to be effective without hydrofracturing	Appropriate	Moderate. Conditions must be maintained long-term.	Hydrofracturing is likely to cause migration of VOCs into otherwise uncontaminated areas. Potential for poor quality groundwater downgradient from barrier. Implementation uses hazardous oxidizing agents.	Eliminated from further consideration due to potential secondary effects
Biological Barrier	Microbial degradation of hazardous constituents through a downgradient barrier	Reliable	Unlikely to be effective without hydrofracturing	Appropriate	Moderate. Conditions must be maintained long-term.	Hydrofracturing is likely to cause migration of VOCs into otherwise uncontaminated areas.	Eliminated from further consideration due to potential secondary effects
Hydraulic Containment	Extraction of contaminated groundwater and with treatment on site	Reliable	Effective	Appropriate	Long-term (several years) but moderate	None expected	Retained

Table 6-1: Corrective Action Cost Estimate

Corrective Action Plan

Former Manchester Tank Company Site (HSI #10765)

Cedartown, Polk County, Georgia

EXPLORATORY BORINGS					
Component	Description	Unit Cost	Units	Quantity	Cost
42 Each, 100-foot depth, 6" Open Borehole Installed by Air Hammer					
Air rig Mobilization/Demobilization	1 Air Rig + Crew	\$2,000	Lump Sum	1	\$2,000
Daily Drilling Rate	8 hour day - 3 Man Crew	\$1,250	Day	55	\$68,750
14" Borehole and 10" Casing Installation	Set Casing at top of rock (~15 feet)	\$65	Foot	630	\$40,950
6" Borehole Construction using Air Hammer	Total depth of 100 feet	\$35	Foot	3,570	\$124,950
Well Development	1 Hour per Well	\$150	Hour	42	\$6,300
			100-foot Borehole Total		\$242,950
14 Each, 40-foot depth, 6" Open Borehole Installed by Air Hammer					
Air rig Mobilization/Demobilization	1 Air Rig + Crew	\$2,000	Lump Sum	1	\$2,000
Daily Drilling Rate	8 hour day - 3 Man Crew	\$1,250	Day	19	\$23,750
14" Borehole and 10" Casing Installation	Set Casing at top of rock (~15 feet)	\$65	Foot	210	\$13,650
6" Borehole Construction using Air Hammer	Total depth of 40 feet	\$30	Foot	350	\$10,500
Well Development	1 Hours per Well	\$150	Hour	14	\$2,100
			40-foot Borehole Total		\$52,000
Full-Time Construction Management		\$1,500	Days	74	\$111,000
Exploratory Borings Total					\$406,000

AQUIFER TESTING					
Component	Description	Unit Cost	Units	Quantity	Cost
Test 56 exploratory Borings for Aquifer Performance					
Equipment Rental	5 Data Loggers, 4" submersible pump, controller, generator, and support equipment	\$6,400	Month	1	\$6,400
Well Capacity Test	Test each well to determine maximum sustained flow rate Assume 2 tests completed per day	\$2,120	Day	30	\$63,600
Water Quality Samples	Collect samples for VOC, iron, and water hardness	\$700	Well	56	\$39,200
Data Analysis	Analysis of well capacity tests and chemical analyses	\$5,200	Lump Sum	1	\$5,200
Aquifer Testing Total					\$114,000

INVESTIGATION DERIVED WASTE					
Component	Description	Unit Cost	Units	Quantity	Cost
Management of IDW from Exploratory Boring Installation and Aquifer Testing					
Roll-off Rental	Rental of two roll-offs - required to exploratory borehole installation	\$5,000	Month	3	\$15,000
Tank Rental	Rental of 21,000-gallon tank for water - required for exploratory boring installation and aquifer testing	\$2,000	Month	4	\$8,000
Transport/Dispose of Non-Hazardous Soil		\$58	Tons	30	\$1,740
Transport/Dispose of Non-Hazardous Water		\$1.10	Gallon	15,000	\$16,500
Investigation Derived Waste					\$41,000

Table 6-1: Corrective Action Cost Estimate

Corrective Action Plan
 Former Manchester Tank Company Site (HSI #10765)
 Cedartown, Polk County, Georgia

MONITOR WELL INSTALLATION						
Component	Description	Unit Cost	Units	Quantity	Cost	
Convert 14 open boreholes into 2" PVC monitoring wells						
Daily Rate	8 hour day	\$1,250	Day	3	\$3,750	
Well Installation	2" PVC, Slotted Screen, Sand, Grout Bentonite Seal	\$10	Foot	140	\$1,400	
Well Covers	Flush Mount Bolt-Down Cover	\$200	Each	14	\$2,800	
Well Development	0.5 Hours per Well	\$150	Hour	7	\$1,050	
Water Disposal	Non-Hazardous	\$145	Drum	4	\$580	
Monitor Well Installation Total					\$10,000	

DESIGN & BIDDING						
Component	Description	Unit Cost	Units	Quantity	Cost	
Draft Design		\$45,000	Lump Sum	1	\$45,000	
Final Design		\$8,000	Lump Sum	1	\$8,000	
Bidding		\$5,000	Lump Sum	1	\$5,000	
Design & Bidding Total					\$58,000	

TREATMENT SYSTEM CONSTRUCTION						
Component	Description	Unit Cost	Units	Quantity	Cost	
Site Work		\$21,650	Lump Sum	1	\$21,650	
Extraction Well Pumps & Plumbing		\$315,725	Lump Sum	1	\$315,725	
Treatment System	Containment, Eq Tank, Air Stripper, Pumps/Piping	\$20,970	Lump Sum	1	\$20,970	
Electrical/Controls		\$387,400	Lump Sum	1	\$387,400	
Discharge Line		\$54,255	Lump Sum	1	\$54,255	
Treatment System Construction Total					\$800,000	

TREATMENT SYSTEM O&M						
Component	Description	Unit Cost	Units	Quantity	Cost	
Operation and Maintenance of the Treatment System						
O&M Manual		\$4,000	Lump Sum	1	\$4,000	
Treatment System Monitoring	2 samples monthly for VOCs	\$200	Samples	2	\$400	
			Treatment System Operation Monitoring through year 10	Events	101	\$40,400
Routine O&M	Weekly visit and inspection	\$600	Event	1	\$600	
			Routine O&M through year 10	Events	404	\$242,400
Non-routine O&M	Monthly, 2-day visit	\$2,000	Event	1	\$2,000	
			Non-routine O&M through year 10	Events	101	\$202,000
Miscellaneous Repairs & Maintenance	Yearly estimate	\$10,000	Event	1	\$10,000	
			Non-routine O&M through year 10	Events	9	\$90,000
Sewer Fee	Discharge to Cedartown Sewer System at 50-gpm	\$0.03	cf-month	288,750	\$9,702	
			Sewer Discharge Fee through year 10	Months	101	\$979,902
Electric Fee	Power consumption estimate	\$600	Month	1	\$600	
			Electric Fee through year 10	Months	101	\$60,600
Treatment System O&M Total					\$1,619,000	

Table 6-1: Corrective Action Cost Estimate

Corrective Action Plan
 Former Manchester Tank Company Site (HSI #10765)
 Cedartown, Polk County, Georgia

MONITORING						
Component	Description	Unit Cost	Units	Quantity	Cost	
Groundwater Monitoring Program Through Year 10						
System Performance Monitoring	14 wells, VOCs	\$470	Samples	15	\$7,050	
	System Performance Monitoring First Two Years		Events	8	\$56,400	
Plume Status Monitoring - First Two Years of Operation	10 wells, VOCs	\$470	Samples	11	\$5,170	
	System Performance Monitoring First Two Years		Events	3	\$15,510	
Expanded Plume Status Monitoring	24 wells, VOCs	\$470	Samples	26	\$12,220	
	System Performance Monitoring Two Years of Operation Through Year 10		Events	13	\$158,860	
Annual Report		\$7,540	Reports	1	\$7,540	
	Annual Sampling and Report Total		Events	8	\$60,320	
Monitoring Total					\$291,000	

COMPLIANCE STATUS REPORT						
Component	Description	Unit Cost	Units	Quantity	Cost	
Prepare CSR Report		\$15,000	Lump Sum	1	\$15,000	
Compliance Status Report Total					\$15,000	

10-YEAR TOTAL PROJECT COST						
Subtotal					\$3,354,000	
Contingency					15%	\$503,000
Project Total					\$3,857,000	

Component totals and contingency have been rounded to the nearest \$1,000.

Appendix A

Boring Logs

MW-30A Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/29/2012
Project No.:	1727-92681	End Date:	7/2/2012
Logged/Checked By:	Daniel Forbes and Nick Fuller/Tom Duffey	Total Depth:	60'
Location Code:	MW-30A	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 24'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 24'-34', 0.01"

Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1	Hand Auger	GRAVEL, sandy, fill	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Portland Cement</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">2" Schedule 40 PVC Riser</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Portland Cement</div> </div>	
2		CLAY, sandy, trace silt and gravel, pale brown, orangish and reddish brown, sand fine-to medium-grained, soft, dry		
3		100		SAND, trace silt and clay, clayey from 4.5 to 5 feet, orangish to reddish brown, and light brown, fine-to medium-grained, loose to medium dense, dry
4				
5				
6	80	SAND, trace silt, clay, and weathered rock, orangish brown, light and reddish brown, fine-to medium-grained, loose to medium dense, dry		
7				
8				
9				
10	70	SAND, clayey, trace silt, orangish brown, light and reddish brown, fine-to medium-grained, medium dense, dry to moist		
11				
12				
13				
14				
15	100	CLAY, sandy, trace silt and weathered rock, yellowish brown, orangish and reddish brown, sand fine-to medium-grained, soft to medium stiff, moist to wet		
16				
17				
18				
19	100	CLAY, trace silt, fine-grained sand, and weathered limestone, yellowish to reddish brown, and orangish brown, soft, wet		
20				
21				
22				
23				
24	100	CLAY, trace silt, fine-to medium-grained sand, and weathered limestone, yellowish brown, reddish and orangish brown, soft, wet		
25				
26				
27				
28	100	LIMESTONE, weathered, sandy, clayey, light brown to light gray, sand fine-to coarse-grained, wet		
29				
30				
31				
32				
33	100	CLAY, trace silt, fine-to medium-grained sand, and weathered limestone, yellowish brown, reddish and orangish brown, soft, wet		
34				
35				
		LIMESTONE, weathered, sandy, clayey, light brown to light gray, sand fine-to coarse-grained, wet	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Bentonite Seal</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">2" Sand Filter Pack</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">2" Schedule 40 PVC Pre-packed Screen, 0.010 Slot</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Bentonite Seal</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"># 2 Sand Filter Pack</div> </div> <div style="text-align: center; margin-top: 5px;"> 2-inch PVC End Cap </div>	

MW-30A Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/29/2012
Project No.:	1727-92681	End Date:	7/2/2012
Logged/Checked By:	Daniel Forbes and Nick Fuller/Tom Duffey	Total Depth:	60'
Location Code:	MW-30A	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 24'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 24'-34', 0.01"
Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
36	100	CLAY, trace silt, fine-to medium-grained sand, and weathered limestone, yellowish brown, reddish and orangish brown, soft, wet	Collapsed Borehole
37			
38			
39			
40			
41	No Recovery		
42			
43			
44			
45			
46	100	Calcite crystals from 40 to 45 feet	
47			
48			
49			
50			
51	No Recovery	CLAY, trace silt, fine-to medium-grained sand, and weathered limestone, yellowish brown, reddish and orangish brown, soft, wet	
52			
53			
54			
55			
56	No Recovery	Assumed lithology	
57			
58			
59			
60			
61		Boring terminated at 60 feet.	

MW-31C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/28/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Daniel Forbes and Nick Fuller/Tom Duffey	Total Depth:	45'
Location Code:	MW-31C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 35'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 35'-45', 0.01"

Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
			Flush Mount Completion		
1	Hand Auger	SAND, organics, trace silt and clay, pale brown to brown, fine-grained, loose, dry	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement
2		CLAY, sandy, trace silt, trace weathered limestone from 4 to 5.5 feet, orangish to reddish brown, and yellowish brown, light to dark gray limestone, fine-to medium-grained, stiff, dry			
3					
4					
5	100				
6	96	CLAY, trace silt, fine-grained sand, and weathered limestone, pale brown, and orangish brown, light to dark gray limestone, stiff, dry			
7		CLAY, sandy, trace silt and weathered limestone, orangish brown, light to dark gray limestone, sand fine-grained, soft, dry to moist			
8					
9					
10					
11	92	CLAY, trace silt, fine-grained sand, and weathered limestone, yellowish brown, light to dark gray limestone, stiff to very stiff, moist			
12					
13					
14					
15	Air Drilling	LIMESTONE, light to dark gray, dense			
16					
17		LIMESTONE, light to dark gray, soft			
18					
19		LIMESTONE, light to dark gray, dense			
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32	Bentonite Seal	Bentonite Seal			
33					
34					
35					

MW-31C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/28/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Daniel Forbes and Nick Fuller/Tom Duffey	Total Depth:	45'
Location Code:	MW-31C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 35'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 35'-45', 0.01"
Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
36	Air Drilling	LIMESTONE, light to dark gray, dense		
37		LIMESTONE, light to dark gray, and white, soft		
38				
39				
40				
41				
42				
43				LIMESTONE, light gray, dense
44				
45				
46		Boring terminated at 45 feet.		
47				

MW-32B Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/26/2012
Project No.:	1727-92681	End Date:	6/27/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	20'
Location Code:	MW-32B	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 10'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 10'-20', 0.01"

Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1	Hand Auger	SAND, organics, trace clay, pale to light brown, and orangish brown, fine-grained, loose, dry	<p>Portland Cement</p> <p>Bentonite Seal</p> <p>#2 Sand Filter Pack</p> <p>2-inch PVC End Cap</p> <p>2-inch Schedule 40 PVC Screen, 0.010 Slot</p> <p>#2 Sand Filter Pack</p>	<p>Portland Cement</p> <p>Bentonite Seal</p> <p>#2 Sand Filter Pack</p> <p>2-inch Schedule 40 PVC Riser</p>
2		SAND, clayey, trace silt and weathered limestone, light to yellowish brown, light gray limestone, fine-grained, medium dense, dry		
3				
4	80	CLAY, sandy, trace silt and weathered limestone, light to yellowish brown, light to dark gray limestone, sand fine-grained, stiff, dry		
5				
6		SAND, clayey, trace silt and weathered limestone, light to yellowish brown, dark reddish and orangish brown, and black, light gray limestone, fine-to medium-grained, dense, dry		
7		CLAY, trace fine-grained sand, silt, and weathered limestone, light to yellowish brown, dark reddish and orangish brown, and black, light to dark gray limestone, stiff to very stiff, dry		
8				
9				
10	60	CLAY, trace fine-grained sand, silt, and weathered limestone, pale orangish to yellowish brown, light to dark gray limestone, soft to stiff, moist		
11				
12				
13				
14	Air Drilling	LIMESTONE, light to dark gray, dense		
15				
16		FRACTURE, water producing		
17				
18		LIMESTONE, light to dark gray, dense		
19				
20				
21		Boring terminated at 20 feet.		

MW-33A Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/25/2012
Project No.:	1727-92681	End Date:	6/25/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	13.67'
Location Code:	MW-33A	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	1" PVC to 8'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	1" PVC: 8'-13.67', 0.01"
Drilling Method: Direct Push (Geoprobe® Model 6610DT)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction			
			Flush Mount Completion			
1	Hand Auger	SAND, organics, trace clay, pale to light brown, and light orangish brown, fine-grained, loose, dry				
2		SAND, trace clay grading to clayey, trace silt and weathered limestone, light brown to light yellowish brown, light to dark gray limestone, fine-grained, medium dense, dry				
3						
4	100	CLAY, sandy, trace silt and weathered limestone, light to orangish brown, light to dark gray limestone, sand fine-grained, stiff, dry				
5						
6						
7	60	CLAY, trace silt, fine-grained sand, and weathered limestone, light to yellowish brown, dark reddish brown and black, light to dark gray limestone, sand fine-grained, stiff to very stiff, dry				
8						
9						
10	60	CLAY, sandy, trace silt and weathered limestone, light to yellowish brown, orangish and dark reddish brown, and black, light to dark gray limestone, sand fine-grained, medium stiff, moist to wet				
11						
12		CLAY, trace silt, fine-grained sand, and weathered limestone, yellowish to pale brown, light and dark reddish brown, and black, light to dark gray limestone, soft to medium stiff, wet				
13						
14		Refusal at 13.67 feet.				
15						

MW-34C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/26/2012
Project No.:	1727-92681	End Date:	7/15/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	58'
Location Code:	MW-34B	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 48'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 48'-58", 0.01"

Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
			Flush Mount Completion		
1	Hand Auger	SAND, organics, trace clay, pale to light brown, and orangish brown, fine-grained, loose, dry	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement
2		SAND, clayey, trace silt and weathered limestone, light to reddish brown, light to dark gray limestone, fine-grained, medium dense, dry			
3					
4					
5	100	CLAY, sandy, trace silt and weathered limestone, orangish to reddish brown, and yellowish brown, light to dark gray limestone, stiff, dry			
6	100	CLAY, trace silt, fine-grained sand, and weathered limestone, yellowish to orangish brown, dark reddish brown and black, light to dark gray limestone, stiff to very stiff, dry to moist			
7					
8					
9					
10	100	CLAY, weathered limestone, trace silt and fine-grained sand, yellowish to orangish brown, dark reddish brown and black, light to dark gray limestone, stiff to very stiff, moist			
11					
12	Air Drilling	LIMESTONE, light to dark gray, dense			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

MW-34C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/26/2012
Project No.:	1727-92681	End Date:	7/15/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	58'
Location Code:	MW-34B	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 48'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 48'-58', 0.01"

Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	Portland Cement
42			
43		LIMESTONE, light to dark gray, soft	Bentonite Seal
44			
45		FRacture	2" Schedule 40 PVC Riser
46			
47		LIMESTONE, light to dark gray, dense	Bentonite Seal
48			
49		# 2 Sand Filter Pack	2" Schedule 40 PVC Screen, 0.010 Slot
50			
51	# 2 Sand Filter Pack	2" Schedule 40 PVC End Cap	
52			
53	Boring terminated at 58 feet.		
54			
55			
56			
57			
58			
59			
60			

MW-35D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/25/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	120'
Location Code:	MW-35D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 100'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 100'-120', 0.01"
Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	SAND, clayey, organics, pale to light orangish brown, fine-grained, loose, dry	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Portland Cement</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">2" Schedule 40 PVC Riser</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Portland Cement</div> </div>
2		CLAY, sandy, trace silt and weathered limestone, light to orangish brown, and reddish brown, light to dark gray limestone, sand fine-grained, medium stiff to stiff, dry	
3			
4			
5	75	CLAY, trace silt and fine-grained sand, light to yellowish brown, dark reddish brown and black, stiff to very stiff, dry Limestone fragment from 8 to 8.25 feet	
6			
7			
8			
9	Air Drilling	CLAY, trace silt, fine-grained sand, and weathered limestone, pale yellowish brown, light gray and pale brown, dark gray limestone, soft, moist	
10			
11			
12		LIMESTONE, dark gray, dense	
13		FRACTURE	
14		LIMESTONE, light to dark gray, dense	
15			
16			
17			
18			
19			
20			
21			
22			
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36			
37			
38			
39			
40			

MW-35D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/25/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	120'
Location Code:	MW-35D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 100'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 100'-120', 0.01"
Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%; text-align: center;">Portland Cement</div> <div style="width: 30%; text-align: center;">2" Schedule 40 PVC Riser</div> <div style="width: 30%; text-align: center;">Portland Cement</div> </div>
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
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77			
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79			
80			

MW-35D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/25/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	120'
Location Code:	MW-35D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 100'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 100'-120', 0.01"
Drilling Method: Direct Push/Air (Geoprobe® Model 6610DT and Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
81	Air Drilling	LIMESTONE, light to dark gray, dense	<p>Portland Cement</p> <p>Bentonite Seal</p> <p>#2 Sand Filter Pack</p> <p>2-inch PVC End Cap</p>
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			
101			
102			
103			
104			
105			
106			
107			
108			
109			
110			
111			
112			
113			
114			
115		FRACTURE	
116			
117			
118			
119			
120			
121		Boring terminated at 120 feet.	

MW-36C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/29/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	80'
Location Code:	MW-36C	Surface Casing Dia./Depth:	6" Steel Casing to 21.5'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 70'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 70'-80', 0.01"

Drilling Method: Air (Drilltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction						
			Flush Mount Completion						
1	Hand Auger	Same lithology as the adjacent boring MW-5. Limestone fragment at 6 feet.	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement				
2									
3									
4									
5	Air Drilling	LIMESTONE, weathered, light to dark gray, soft	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement				
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30						LIMESTONE, light to dark gray, soft	6" Steel Casing	2" Schedule 40 PVC Riser	6" Steel Casing
31						LIMESTONE, light to dark gray, dense			
32									
33									
34									
35									
36									
37									
38									
39									
40									

MW-36C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/29/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	80'
Location Code:	MW-36C	Surface Casing Dia./Depth:	6" Steel Casing to 21.5'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 70'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 70'-80', 0.01"
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	<p style="font-size: small; text-align: center;"> Portland Cement 2" Schedule 40 PVC Riser Portland Cement Bentonite Seal #2 Sand Filter Pack 2-inch PVC End Cap Bentonite Seal #2 Sand Filter Pack 2" Schedule 40 PVC Pre-Packed Screen, 0.010 Slot </p>
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80		FRACTURE, mud filled	
80		LIMESTONE, light to dark gray, dense	
81		Boring terminated at 80 feet.	

MW-37C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/28/2012
Logged/Checked By	Daniel Forbes/Tom Duffey	Total Depth:	101'
Location Code:	MW-37C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	SAND, organics, trace clay, pale to light brown, and orangish brown, fine-grained, loose, dry	
2		SAND, clayey, trace silt and weathered limestone, light to yellowish brown, light gray limestone, fine-grained, medium dense, dry	
3			
4			
5	80	CLAY, sandy, trace silt and weathered limestone, light to yellowish brown, light to dark gray limestone, sand fine-grained, stiff, dry	
6			
7		SAND, clayey, trace silt and weathered limestone, light to yellowish brown, dark reddish and orangish brown, and black, light gray limestone, fine-to medium-grained, dense, dry	
8		CLAY, trace fine-grained sand, silt, and weathered limestone, light to yellowish brown, dark reddish and orangish brown, and black, light to dark gray limestone, stiff to very stiff, dry	
9			
10	60	CLAY, trace fine-grained sand, silt, and weathered limestone, pale orangish to yellowish brown, light to dark gray limestone, soft to stiff, moist	
11			
12			
13			
14	Air Drilling		
15		LIMESTONE, light to dark gray, dense	
16		FRACTURE	
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29		LIMESTONE, light to dark gray, dense	
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

MW-37C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/28/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	101'
Location Code:	MW-37C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring

Drilling Method: Air (Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	Open Boring
42			
43			
44			
45			
46			
47			
48		LIMESTONE, light to dark gray, soft	
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64		LIMESTONE, light to dark gray, dense	
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78	LIMESTONE, light to dark gray, soft		
79	LIMESTONE, light to dark gray, dense		
80			

MW-37C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/28/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	101'
Location Code:	MW-37C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Driltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
81	Air Drilling	LIMESTONE, light to dark gray, dense	Open Boring		
82					
83					
84					
85					
86					
87					
88					
89					
90					FRACTURE
91					LIMESTONE, light to dark gray, dense
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102	Boring terminated at 101 feet.				

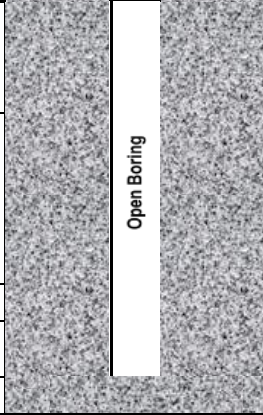
MW-38C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/29/2012
Logged/Checked By	Daniel Forbes/Tom Duffey	Total Depth:	50'
Location Code:	MW-38C	Surface Casing Dia./Depth	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	GRAVEL, sandy, fill	6" Steel Casing
2		CLAY, sandy, trace silt, orangish to reddish brown, sand fine-to medium-grained, soft to medium stiff, dry	
3			
4			
5	Air Drilling		CLAY, sandy grading to a trace of sand, trace silt, light to yellowish brown, and orangish brown, sand fine to medium-grained, soft to medium stiff, moist
6			
7			
8			
9		CLAY, trace fine-grained sand, silt, and weathered limestone, pale yellowish brown to brown, light to dark gray limestone, soft, moist	
10			
11			
12			
13		Air Drilling	LIMESTONE, light to dark gray, dense
14			
15			
16			
17			
18			
19	LIMESTONE, light to dark gray, soft		
20			
21			
22			
23			
24			
25	LIMESTONE, light to dark gray, dense		
26			
27			
28			
29			
30			
31	Air Drilling	FRACTURE	
32			
33		LIMESTONE, light to dark gray, dense	
34			
35			
36			
37			
38			
39			
40			

MW-38C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/27/2012
Project No.:	1727-92681	End Date:	6/29/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	50'
Location Code:	MW-38C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, soft to dense	
42			
43			
44		LIMESTONE, light to dark gray, dense	
45			
46			
47			
48		FRACTURE	
49		LIMESTONE, light to dark gray, dense	
50			
51		Boring terminated at 50 feet.	

MW-39C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/30/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Nick Fuller/Tom Duffey	Total Depth:	100'
Location Code:	MW-39C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring

Drilling Method: Air (Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
		ASPHALT, quarter inch thick	Flush Mount Completion
1	Hand Auger	CLAY, sandy, trace silt, reddish brown, sand fine-grained, medium stiff, dry	6" Steel Casing →
2			
3			
4			
5	Air Drilling	CLAY, sandy, reddish brown, sand fine-grained, medium stiff, dry to moist	Open Boring
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
		LIMESTONE, light to dark gray, soft	

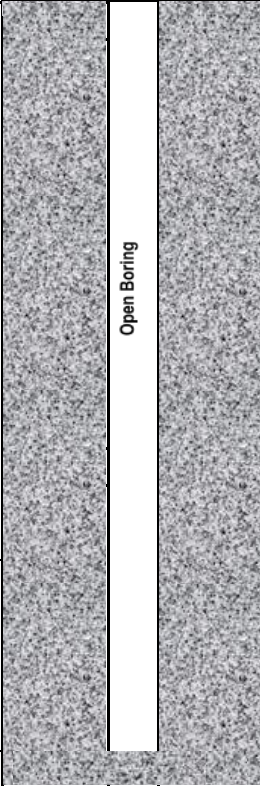
MW-39C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/30/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Nick Fuller/Tom Duffey	Total Depth:	100'
Location Code:	MW-39C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
41	Air Drilling	LIMESTONE, light to dark gray, dense	Open Boring	
42				
43		LIMESTONE, light to dark gray, soft		
44				
45		LIMESTONE, light to dark gray, dense		
46				
47				
48				
49				
50				
51				
52		LIMESTONE, light to dark gray, and white, soft to dense		
53				
54				
55				
56				
57				
58				
59		LIMESTONE, light to dark gray, dense		
60				
61				
62				
63				
64				
65				
66				
67				
68				
69	LIMESTONE, light to dark gray, soft to dense			
70				
71				
72				
73	LIMESTONE, light to dark gray, soft to dense			
74				
75				
76				
77				
78				
79				
80				

MW-39C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/30/2012
Project No.:	1727-92681	End Date:	7/1/2012
Logged/Checked By:	Nick Fuller/Tom Duffey	Total Depth:	100'
Location Code:	MW-39C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
81	Air Drilling	LIMESTONE, light to dark gray, dense	 <p style="text-align: center;">Open Boring</p>
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99		LIMESTONE, light to dark gray, and white, soft to dense	
100			
101		Boring terminated at 100 feet.	

MW-40C Boring Log

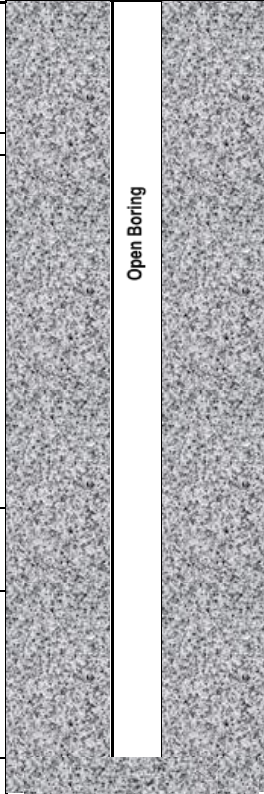
Project:	Cedartown Phase 2 Investigation	Start Date:	6/29/2012
Project No.:	1727-92681	End Date:	7/15/2012
Logged/Checked By	Daniel Forbes/Tom Duffey	Total Depth:	60'
Location Code:	MW-40C	Surface Casing Dia./Depth	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1	Hand Auger	SAND, organics, trace silt and clay, pale to light brown, fine-grained, loose to medium dense, dry	6" Steel Casing →	
2		CLAY, sandy, trace silt and rock fragments, orangish to reddish brown, and yellowish brown, sand fine-to medium-grained, stiff, dry		
3				
4				
5	Air Drilling		CLAY, sandy, trace silt and rock fragments, pale brown to brown, sand fine-to medium-grained, soft to medium stiff, dry to moist	6" Steel Casing →
6				
7				
8				
9				
10				
11		CLAY, trace fine-grained sand, silt, and weathered limestone, yellowish brown, and orangish brown, light to dark gray limestone, soft to medium stiff, moist		
12				
13				
14		LIMESTONE, light to dark gray, dense		
15	FRACTURE, sandy clay infilling, wet			
16	LIMESTONE, light to dark gray, dense			
17	FRACTURE, sandy clay infilling, wet			
18	LIMESTONE, light to dark gray, dense			
19	FRACTURE, sandy clay infilling, wet			
20	LIMESTONE, light to dark gray, dense			
21	FRACTURE, sandy clay infilling, wet			
22	Air Drilling	6" Steel Casing →	6" Steel Casing →	
23				
24				
25				
26				
27				LIMESTONE, light to dark gray, dense
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				LIMESTONE, light to dark gray, soft to dense
38				
39				
40				

Open Boring

MW-40C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	6/29/2012
Project No.:	1727-92681	End Date:	7/15/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	60'
Location Code:	MW-40C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Driltech Model T25KW)			

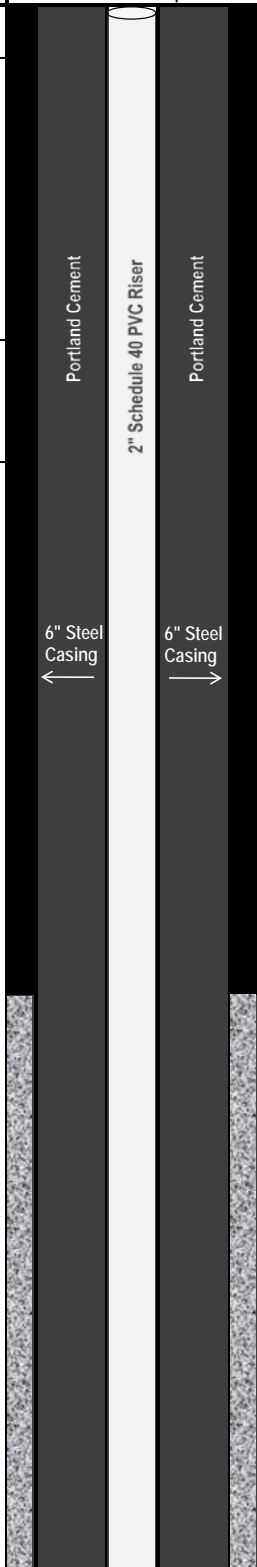
Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	
42			
43		FRACTURE	
44			
45		LIMESTONE, light to dark gray, dense	
46			
47			
48			
49			
50			
51			
52			
53		LIMESTONE, light to dark gray, soft to dense	
54			
55			
56		LIMESTONE, light to dark gray, dense	
57			
58			
59			
60		Boring terminated at 60 feet.	
61			

MW-41C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/13/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	75'
Location Code:	MW-41C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 65'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 65'-75', 0.01"

Drilling Method: Air (Drilltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	CLAY, sandy, silty, organics, trace rock fragments, dark brown, sand fine-grained, stiff, dry	Portland Cement
2			
3			
4			
5	Air Drilling	SILT, clayey, sandy grading to trace sand, trace weathered rock, light to yellowish brown, brown to reddish brown from 1 to 2 feet, medium stiff to stiff, dry to moist	2" Schedule 40 PVC Riser
6			
7			
8			
9			
10			
11			
12			
13		CLAY, silty, trace fine-grained sand and weathered limestone, light to yellowish brown, light to dark gray limestone, soft to medium stiff, moist	
14			
15			
16			
17			
18			
19			
20			
21	LIMESTONE, light to dark gray, dense		
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			



MW-41C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/13/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	75'
Location Code:	MW-41C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 65'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 65'-75', 0.01"

Drilling Method: Air (Drilltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	
42			
43		FRACTURE	
44		LIMESTONE, light to dark gray, dense	
45			
46			
47			
48			
49		FRACTURE, water producing	
50			
51		LIMESTONE, light to dark gray, dense	
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66	Bentonite Seal		
67			
68	# 2 Sand Filler Pack		
69			
70	2-inch PVC End Cap		
71			
72	2-inch Schedule 40 PVC Screen, 0.010 Slot		
73			
74	# 2 Sand Filler Pack		
75			
76		Boring terminated at 75 feet.	

MW-42C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By	Daniel Forbes/Tom Duffey	Total Depth:	160'
Location Code:	MW-42C	Surface Casing Dia./Depth	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1		CLAY, sandy, silty, organics, trace rock fragments, brown to dark brown, medium stiff, moist to wet	6" Steel Casing →
2	Hand Auger	SAND, silty, clayey, trace organics and rock fragments, light brown, brown and orangish brown, fine-grained, medium dense, moist	
3			
4			
5	Air Drilling	SILT, clayey, trace fine-grained sand, light brown, stiff, moist	Open Boring
6			
7			
8			
9			
10			
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MW-42C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	160'
Location Code:	MW-42C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
41	Air Drilling	LIMESTONE, light to dark gray, dense		Open Boring
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
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MW-42C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	160'
Location Code:	MW-42C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
81	Air Drilling	LIMESTONE, light to dark gray, dense	Open Boring
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
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119			
120			

MW-42C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/12/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	160'
Location Code:	MW-42C	Surface Casing Dia./Depth:	6" Steel Casing to 25'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drilltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
121	Air Drilling	LIMESTONE, light to dark gray, dense	Open Boring
122			
123			
124			
125			
126			
127			
128			
129			
130			
131			
132			
133			
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158			
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160			
161		Boring terminated at 160 feet.	

MW-43D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1		CLAY, sandy, silty, organics, brown, and orangish brown, sand fine-grained, medium stiff, moist	10" Steel Casing	
2		SAND, silty, clayey, trace organics, light brown, and orangish brown, fine-grained, medium dense, moist		
3	Hand Auger		6" Steel Casing	
4				
5		SILT, clayey, trace fine-grained sand and weathered limestone, light brown, and orangish brown, stiff, dry		
6				
7				
8				
9	CLAY, silty, weathered limestone, trace fine-grained sand, light brown, light to dark gray limestone, medium stiff, dry to moist			
10				
11				
12				
13				
14	LIMESTONE, light to dark gray, dense			
15				
16				
17				
18		FRACTURE		
19	Air Drilling		Open Boring	
20				
21				
22				
23				
24				
25				
26				
27				
28				
29		LIMESTONE, light to dark gray, dense		
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

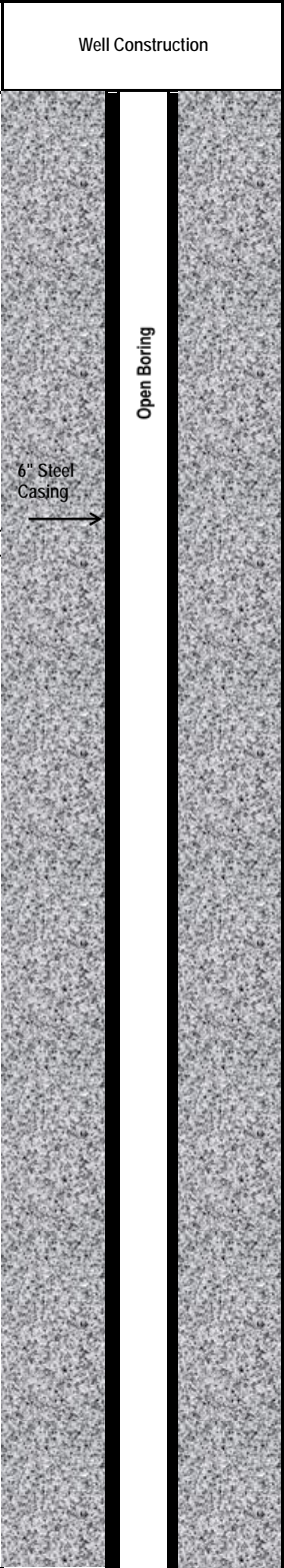

MW-43D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Dritech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
41	Air Drilling	LIMESTONE, light to dark gray, dense	<p>6" Steel Casing →</p> <p>Open Boring</p>
42			
43			
44			
45		FRACTURE, water producing	
46			
47		LIMESTONE, light to dark gray, dense	
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60		LIMESTONE, light to dark gray, dense	
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74		LIMESTONE, light to dark gray, dense	
75			
76			
77			
78			
79			
80			

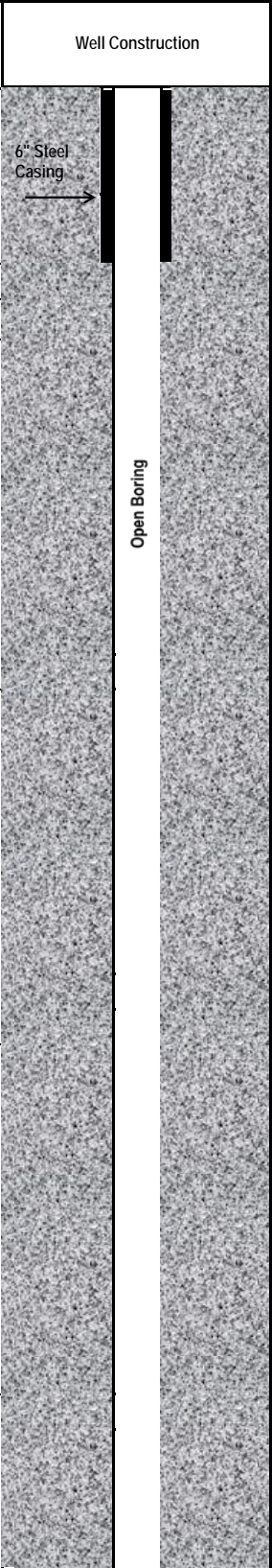
MW-43D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Drittech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
81	Air Drilling	LIMESTONE, light to dark gray, dense			
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93				FRACTURE	
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
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115					
116					
117					
118					
119					
120					
		LIMESTONE, light to dark gray, dense			

MW-43D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Dritech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
121	Air Drilling	LIMESTONE, light to dark gray, dense		
122				
123				
124				
125				
Rock Coring Summary (NO Core Size)				
	Fractures	Core Description	Recovery	Rock Quality Designation
126	Horizontal Fractures: 127.69, 128.33, 131.07, and 132.69	LIMESTONE with stylolites, light to dark gray, hard	91.72%	91.72%
127				
128				
129				
130				
131	High Angle Fracture: 127.75 to 128.75	LIMESTONE with stylolites, light to dark gray, hard	98.75%	98.75%
132				
133				
134				
135				
136	Horizontal Fractures: 137.59, 139.15, and 143.39	LIMESTONE with stylolites, light to dark gray, hard	100%	100%
137				
138				
139				
140				
141	Filled High Angle Fractures: 135.75 to 136.75, 143.25 to 144.25	LIMESTONE with stylolites, light to dark gray, hard	95.42%	95.42%
142				
143				
144				
145				
146	Horizontal Fractures: 147.59 and 153.32	LIMESTONE with stylolites, light to dark gray, hard	100%	100%
147				
148				
149				
150				
151	Filled High Angle Fractures: 144.75 to 145.75, 146.75 to 147.25, 148.05 to 148.65, and 152 to 152.5	LIMESTONE with stylolites, light to dark gray, hard	95.42%	95.42%
152				
153				
154				
155				
156	Horizontal Fractures: 155.39, 157.11, 157.86, 158.60, 160.66, and 161.88	LIMESTONE with stylolites, light to dark gray, hard	95.42%	95.42%
157				
158				
159				
160				

MW-43D Boring Log

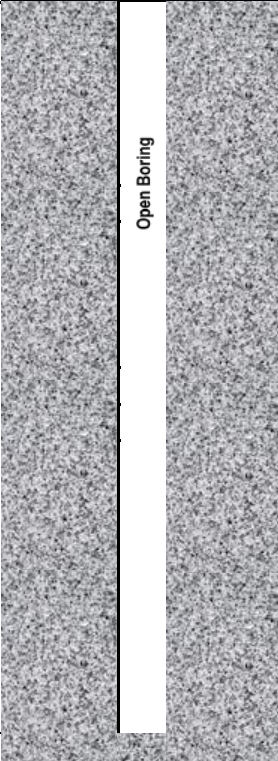
Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Driltech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description			Well Construction	
161	Filled High Angle Fractures: 155.33 to 160.5, 162.25 to 164.75	LIMESTONE with stylolites, light to dark gray, hard	95.42%	95.42%		
162						
163						
164						
165						
166	Horizontal Fractures: 165.49, 166.09, 167.81, 169.19, 169.75, and 172.56	LIMESTONE with stylolites, light to dark gray, hard	94.79%	94.79%		
167						
168						
169						
170						
171						
172						
173						
174	Air Drilling	LIMESTONE, light to dark gray, dense				
175						
176						
177						
178						
179						
180						
181						
182						
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197						
198						
199						
200						

Open Boring

MW-43D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	7/9/2012
Project No.:	1727-92681	End Date:	7/16/2012
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	220'
Location Code:	MW-43D	Surface Casing Dia./Depth:	10" Steel Casing to 15' 6" Steel Casing to 125'
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	Open Boring
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	Open Boring
Drilling Method: Air (Dritech Model T25KW)			

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
201	Air Drilling	LIMESTONE, light to dark gray, dense	
202			
203			
204			
205			
206			
207			
208			
209			
210			
211			
212			
213			
214			
215			
216			
217			
218			
219			
220		Boring terminated at 220 feet.	
221			

MW-44C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	40'
Location Code:	MW-44C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 30'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 30'-40', 0.01"

Drilling Method: Air (Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction								
			Flush Mount Completion								
1	Hand Auger	SAND, gravel, pale brown to brown, fine-grained, loose, dry	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement						
2											
3											
4											
5	Air Drilling	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry				Bentonite Seal	#2 Sand Filter Pack	Schedule 40 PVC Screen, 0.010 Slot			
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
		LIMESTONE, light to dark gray, dense									
		LIMESTONE, light to dark gray, dense									
		CLAY, trace silt, fine-grained sand, and weathered limestone, dark brown, light to dark gray limestone, stiff to very stiff, moist									
		LIMESTONE, light to dark gray, dense									

MW-44C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	40'
Location Code:	MW-44C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 30'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 30'-40', 0.01"

Drilling Method: Air (Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
36	Air Drilling	LIMESTONE, light to dark gray, dense	
37			
38			
39			
40			
41		Boring terminated at 40 feet.	
42			

MW-45C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	35'
Location Code:	MW-45C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35', 0.01"

Drilling Method: Air (Dritech Model T25KW)

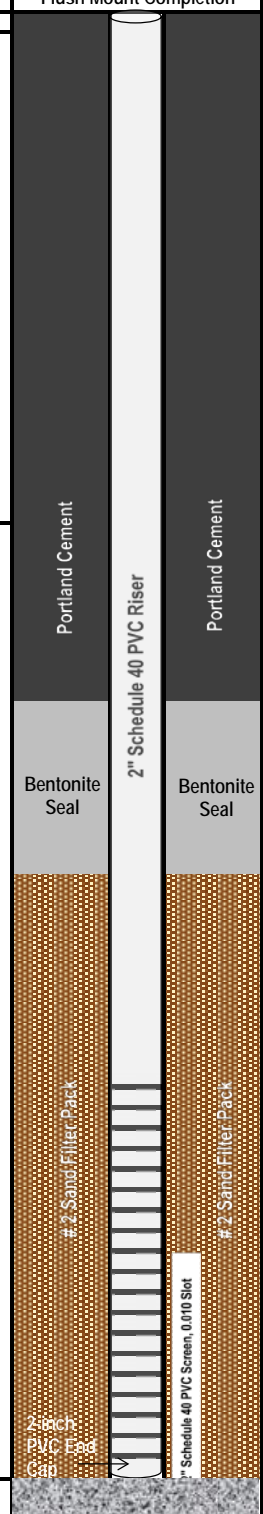
Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
			Flush Mount Completion		
1	Hand Auger	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	Portland Cement		
2					
3	Air Drilling	LIMESTONE, light to dark gray, dense	Portland Cement		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28				LIMESTONE, light to dark gray, soft.	#2 Sand Filter Pack
29				LIMESTONE, light to dark gray, dense	
30				LIMESTONE, light to dark gray, soft.	#2 Sand Filter Pack
31	LIMESTONE, light to dark gray, dense				
32	LIMESTONE, light to dark gray, soft.	#2 Sand Filter Pack			
33	LIMESTONE, light to dark gray, dense				
34		#2 Sand Filter Pack			
35	Boring terminated at 35 feet.				
36			2-inch PVC End Cap 1" Schedule 40 PVC Screen, 0.010 Slot		

MW-46C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/10/2012
Project No.:	1727-94239	End Date:	10/10/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	35'
Location Code:	MW-46C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
		<u>Asphalt, concrete</u>	Flush Mount Completion
1	Hand Auger		Portland Cement
2			
3			
4			
5	Air Drilling	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	Portland Cement
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19	LIMESTONE, light to dark gray, dense		Bentonite Seal
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36		Boring terminated at 35 feet.	Bentonite Seal



MW-47C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/9/2012
Project No.:	1727-94239	End Date:	10/9/2012
Logged/Checked By:	Tom Duffey/	Total Depth:	35'
Location Code:	MW-47C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	
2			
3			
4	Air Drilling	LIMESTONE, light to dark gray, dense	
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31	LIMESTONE, light to dark gray, dense		
32			
33			
34			
35			
36		Boring terminated at 35 feet.	

MW-48C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/10/2012
Project No.:	1727-94239	End Date:	10/10/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	35'
Location Code:	MW-48C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
			Flush Mount Completion		
1	Hand Auger	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry			
2					
3					
4					
5	Air Drilling			LIMESTONE, light to dark gray, dense	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27		LIMESTONE, light to dark gray, dense			
28					
29					
30					
31					
32					
33					
34					
35					
36	Boring terminated at 35 feet.				

MW-49C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/9/2012
Project No.:	1727-94239	End Date:	10/9/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	35'
Location Code:	MW-49C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
			Flush Mount Completion
1	Hand Auger	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	Portland Cement
2			
3			
4			
5			
6			
7			
8			
9	Air Drilling	LIMESTONE, light to dark gray, dense	Portland Cement
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			Boring terminated at 35 feet.

MW-50C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/9/2012
Project No.:	1727-94239	End Date:	10/9/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	35'
Location Code:	MW-50C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 25'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 25'-35'; 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1	Hand Auger		2" Schedule 40 PVC Riser	
2				
3				
4				
5	Air Drilling	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	Portland Cement	
6				
7				
8				
9				
10				
11				
12				
13				
14				
15		LIMESTONE, light to dark gray, dense	Bentonite Seal	
16				
17				
18				
19				
20				
21				LIMESTONE, light to dark gray, soft
22				LIMESTONE, light to dark gray, dense
23				LIMESTONE, light to dark gray, soft
24				LIMESTONE, light to dark gray, dense
25	LIMESTONE, light to dark gray, soft			
26	LIMESTONE, light to dark gray, dense	# 2 Sand Filter Pack		
27				
28			LIMESTONE, light to dark gray, soft	
29	LIMESTONE, light to dark gray, dense	# 2 Sand Filter Pack		
30				
31				
32				
33				
34				
35				
36	Boring terminated at 35 feet.		2-inch PVC End Cap	

MW-51C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	25'
Location Code:	MW-51C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 15'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 15'-25', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction		
			Flush Mount Completion		
1	Hand Auger	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry	Portland Cement	2" Schedule 40 PVC Riser	Portland Cement
2					
3					
4					
5	Air Drilling	LIMESTONE, light to dark gray, dense	Bentonite Seal	2" Schedule 40 PVC Riser	Bentonite Seal
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20	LIMESTONE, light to dark gray, soft, water present	LIMESTONE, light to dark gray, dense	2-inch # 2 Sand Filter Pack	2" Schedule 40 PVC Screen, 0.010 Slot	# 2 Sand Filter Pack
21					
22					
23					
24	LIMESTONE, light to dark gray, dense	LIMESTONE, light to dark gray, dense	2-inch # 2 Sand Filter Pack	2" Schedule 40 PVC Screen, 0.010 Slot	# 2 Sand Filter Pack
25					
26		Boring terminated at 25 feet.	2-inch # 2 Sand Filter Pack	2" Schedule 40 PVC Screen, 0.010 Slot	# 2 Sand Filter Pack

MW-52C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	40'
Location Code:	MW-52C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 30'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 30'-40', 0.01"

Drilling Method: Air (Dritech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction	
			Flush Mount Completion	
1	Hand Auger	SAND, gravel, pale brown to brown, fine-grained, loose, dry	<p>Portland Cement</p> <p>2" Schedule 40 PVC Riser</p> <p>Portland Cement</p> <p>Bentonite Seal</p> <p>Bentonite Seal</p> <p>#2 Sand Filter Pack</p> <p>Schedule 40 PVC Screen, 0.010 Slot</p> <p>#2 Sand Filter Pack</p>	
2				
3				
4				
5	Air Drilling	CLAY, sandy, trace silt, orangish to reddish brown, fine-to medium-grained, stiff, dry		
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				LIMESTONE, light to dark gray, dense
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

MW-52C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	10/11/2012
Project No.:	1727-94239	End Date:	10/11/2012
Logged/Checked By:	Nick Fuller/	Total Depth:	40'
Location Code:	MW-52C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 30'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 30'-40', 0.01"

Drilling Method: Air (Driltech Model T25KW)

Depth (feet)	Recovery (percent)	Formation Description	Well Construction
36	Air Drilling	FRACTURE, limestone, light to dark gray, water producing	
37		LIMESTONE, light to dark gray, dense	
38			
39			
40			
41		Boring terminated at 40 feet.	
42			

MW-53C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	3/4/2013
Project No.:	1727-92681	End Date:	3/6/2013
Logged/Checked By:	Jeff Weeber/Tom Duffey	Total Depth:	75'
Location Code:	MW-53C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 65'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 65'-75', 0.01"

Drilling Method: Air Rotary (Dritech Model T25KW)

Depth (feet)	Formation Description	Well Construction	
		Flush-Mount Completion	
1	ASPHALT, 4-inches, GRAVEL, 2-inches, sandy, brown and orangish brown, sand fine-to coarse-grained, dry to moist	Portland Cement	2" Schedule 40 PVC Riser
2	CLAY, sandy, silty, orangish brown, sand fine-grained, medium stiff, plastic, moist		
3			
4			
5	SAND, clayey, silty, trace gravel, brown, fine-grained, medium stiff, slightly plastic, moist		
6			
7			
8	SAND, clayey, silty, brown, and reddish brown, fine-grained, medium stiff, slightly plastic, moist to wet		
9			
10			
11	CLAY, silty, trace sand, brown, sand fine-grained, soft to medium stiff, plastic, moist		
12			
13			
14	LIMESTONE, light gray, dense		
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			

MW-53C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	3/4/2013
Project No.:	1727-92681	End Date:	3/6/2013
Logged/Checked By:	Jeff Weeber/Tom Duffey	Total Depth:	75'
Location Code:	MW-53C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 65'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 65'-75', 0.01"

Drilling Method: Air Rotary (Dritech Model T25KW)

Depth (feet)	Formation Description	Well Construction
39	LIMESTONE, light gray, dense	
40		
41		
42		
43		
44		
45		
46		
47		
48		
49	LIMESTONE, light to dark gray, dense	
50		
51		
52		
53		
54		
55		
56		
57		
58		
59	Boring terminated at 75 feet.	
60		
61		
62		
63		
64		
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72		
73		
74		
75		
76		

MW-54C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	2/27/2013
Project No.:	1727-92681	End Date:	2/28/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	60'
Location Code:	MW-54C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 43.5'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 43.5'-53.5', 0.01"
Drilling Method: Air Rotary (Drltech Model T25KW)			

Depth (feet)	Formation Description	Well Construction
		Flush-Mount Completion
	ASPHALT, 4-inches	
1	GRAVEL, sandy, brown and orangish brown, sand fine-to coarse-grained, dry to moist	
2		
3	CLAY, sandy, silty, trace gravel, orangish brown, sand fine-grained, medium stiff, plastic, wet	
4		
5		
6		
7		
8		
9		
10	CLAY, silty, trace sand, brown, light and orangish brown, sand fine-grained, medium stiff, plastic, wet	
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26	LIMESTONE, light to dark gray, dense	
27		
28		
29		
30		
31		
32		
33		
34		
35		

Portland Cement

Bentonite Seal

2 Sand Filter Pack/
Silty Clay Infilling

2" Schedule 40 PVC Riser

Portland Cement

Bentonite Seal

2 Sand Filter Pack/
Silty Clay Infilling

MW-54C Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	2/27/2013
Project No.:	1727-92681	End Date:	2/28/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	60'
Location Code:	MW-54C	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 43.5'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 43.5'-53.5', 0.01"
Drilling Method: Air Rotary (Drittech Model T25KW)			

Depth (feet)	Formation Description	Well Construction
36	LIMESTONE, light to dark gray, dense	
37		
38		
39		
40		
41		
42		
43		
44		
45		
46	FRACTURE, silty clay infilling, trace sand, wet	
47		
48		
49		
50		
51		
52		
53		
54		
55		
56	LIMESTONE, light to dark gray, soft	
57	FRACTURE, silty clay infilling, trace sand, wet	
58		
59		
60	Boring terminated at 60 feet.	
61		

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction				
		Flush-Mount Completion				
1	GRAVEL, sandy, silty, clayey, light brown, and reddish brown, sand fine-to medium-grained, dry	10" Steel Casing	6" Steel Casing	Portland Cement	2" Schedule 80 PVC Riser	Portland Cement
2						
3						
4						
5						
6	CLAY, silty, trace sand, reddish brown, and brown, sand fine-grained, medium stiff to stiff, plastic, dry to wet					
7						
8						
9						
10						
11						
12	LIMESTONE, light gray to gray, dense	10" Steel Casing	6" Steel Casing	Portland Cement	2" Schedule 80 PVC Riser	Portland Cement
13	FRACTURE, water-producing					
14						
15						
16						
17						
18						
19						
20						
21						
22						
23		10" Steel Casing	6" Steel Casing	Portland Cement	2" Schedule 80 PVC Riser	Portland Cement
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"
Drilling Method: Air Rotary (Driltech Model T25KW)			

Depth (feet)	Formation Description	Well Construction
39	LIMESTONE, light to dark gray, dense	<p>6" Steel Casing Portland Cement 2" Schedule 80 PVC Riser Portland Cement 6" Steel Casing</p>
40		
41		
42		
43		
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48		
49		
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"
Drilling Method: Air Rotary (Driltech Model T25KW)			

Depth (feet)	Formation Description	Well Construction
77	LIMESTONE, light to dark gray, dense	
78		
79		
80		
81		
82		
83		
84		
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112		
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114		

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"
Drilling Method: Air Rotary (Driltech Model T25KW)			

Depth (feet)	Formation Description	Well Construction
115	LIMESTONE, light to dark gray, dense	<p style="font-size: small; text-align: center;"> 6" Steel Casing Portland Cement 2" Schedule 80 PVC Riser Portland Cement 6" Steel Casing </p>
116		
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124		
125		
126		
127		
128		
129		
130		
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction
153	LIMESTONE, light to dark gray, dense	
154		
155		
156		
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction
191	LIMESTONE, light to dark gray, dense	<p style="font-size: small; text-align: center;"> 6" Steel Casing Portland Cement 2" Schedule 80 PVC Riser Portland Cement 6" Steel Casing </p>
192		
193		
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200		
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction
229	LIMESTONE, light to dark gray, dense	<p style="font-size: small; text-align: center;"> 6" Steel Casing Portland Cement 2" Schedule 80 PVC Riser Portland Cement 6" Steel Casing </p>
230		
231		
232		
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238		
239		
240		
241		
242		
243		
244		
245		
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction	
267	LIMESTONE, light to dark gray, dense	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 15%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> </div>	
268			
269			
270			
271			
272			
273			
274			
275			
276			
277			
278			
279			
280			
281			
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292			
293			
294			
295			
296			
297			
298			
299	LIMESTONE, light to dark gray, small fractures, dense	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 15%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> </div>	
300			
301	LIMESTONE, light to dark gray, dense		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="width: 15%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> <div style="width: 10%; height: 100%; background-color: #333333; color: white; text-align: center; font-size: 8px;">Portland Cement</div> <div style="width: 10%; height: 100%; background-color: #cccccc; border: 1px solid black;"></div> </div>
302			
303			
304			
304			

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction			
305	LIMESTONE, light to dark gray, dense		Portland Cement		Portland Cement
306					
307					
308					
309					
310					
311					
312					
313					
314					
315	LIMESTONE, dark gray, dense		Portland Cement		Portland Cement
316					
317					
318					
319					
320					
321					
322					
323					
324					
325					
326					
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341					
342					

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction			
343	LIMESTONE, dark gray, dense		Portland Cement		Portland Cement
344					
345					
346					
347					
348					
349					
350					
351					
352					
353					
354					
355					
356					
357					
358	LIMESTONE, light to dark gray, dense		Portland Cement		Portland Cement
359					
360					
361					
362					
363					
364					
365					
366					
367					
368	LIMESTONE, dark gray, dense		Portland Cement		Portland Cement
369					
370					
371					
372					
373	LIMESTONE, light to dark gray, dense		Portland Cement		Portland Cement
374					
375					
376					
377					
378					
379					
380					

MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction			
381	LIMESTONE, light to dark gray, dense		Portland Cement		Portland Cement
382					
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MW-55D Boring Log

Project:	Cedartown Phase 2 Investigation	Start Date:	5/14/2013
Project No.:	1727-92681	End Date:	5/24/2013
Logged/Checked By:	Daniel Forbes/Tom Duffey	Total Depth:	450'
Location Code:	MW-55D	Surface Casing Dia./Depth:	None
Location:	Cedartown, Georgia	Well Casing Dia./Depth:	2" PVC to 435'
Driller:	Tri-State Drilling, LLC	Screen Dia./Depth/Slot:	2" PVC: 435'-445', 0.01"

Drilling Method: Air Rotary (Driltech Model T25KW)

Depth (feet)	Formation Description	Well Construction
419	LIMESTONE, light to dark gray, dense	<p style="font-size: small;">Bentonite Seal 2" Schedule 80 PVC Riser Bentonite Seal # 2 Sand Filter Pack 2" Schedule 80 PVC Screen, 0.010 Slot # 2 Sand Filter Pack 2-inch PVC End Cap Collapsed Annulus</p>
420		
421		
422		
423		
424		
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426		
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451	Boring terminated at 450 feet.	

Appendix B

Groundwater Laboratory Reports



July 17, 2012

Tom Duffey
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank (Cedartown)

Dear Tom Duffey:

Order No: 1207140

Analytical Environmental Services, Inc. received 10 samples on 7/3/2012 11:25:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
Project Manager

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
		DATE	TIME				PRESERVATION (See codes)	PROJECT INFORMATION		
<p>COMPANY: CDM Smith ADDRESS: 3715 Northside Parkway NW Building 300 Suite 400 Atlanta GA 30327 PHONE: 404-720-1400 SAMPLED BY: Nick Fuller SIGNATURE: <i>[Signature]</i></p>										
1	MW-33	6/27/12	0835	X		GW				2
2	MW-32	7/1/12	1125	X		GW				2
3	MW-39	7/1/12	1410	X		GW				2
4	MW-37	7/1/12	1515	X		GW				2
5	MW-31	7/1/12	1550	X		GW				2
6	MW-38	7/2/12	1005	X		GW				2
7	MW-35	7/2/12	1100	X		GW				2
8	MW-34	7/2/12	1930	X		GW				2
9	MW-30	7/3/12	0755	X		GW				2
10	TRIP Blank			X		W				2
11										
12										
13										
14										
<p>RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: <u>7/3/12 1125</u> RECEIVED BY: <i>[Signature]</i> DATE/TIME: <u>7/3/12 1125</u></p>										
<p>SPECIAL INSTRUCTIONS/COMMENTS: SHIPMENT METHOD: <u>11:25</u> OUT: <u>11:25</u> IN: <u>11:25</u> CLIENT: <u>Tom Duffey</u> VIA: <u>UPS MAIL COURIER</u> OTHER: <u>GREYHOUND</u></p>										
<p>PROJECT NAME: Former Manchester Tank (Cedar town) PROJECT #: Cedar town, 6A SITE ADDRESS: Tom Duffey SEND REPORT TO: Tom Duffey INVOICE TO: duffey JT @ comsmith.com (IF DIFFERENT FROM ABOVE) QUOTE #: POH:</p>										
<p>RECEIPT: Total # of Containers: 20 Turnaround Time Request: Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other 3 Day Rush <input checked="" type="radio"/></p>										
<p>STATE PROGRAM (if any): E-mail? Y / N; Fax? Y / N DATA PACKAGE: I II III IV</p>										

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+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Client: CDM Smith Inc.
Project: Former Manchester Tank (Cedartown)
Lab ID: 1207140

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Methylene Chloride was detected in Method Blank 163538 at 13.75 ug/L, which was above the reporting limit of 5.0 ug/L resulting in "B" qualified data for all samples with final reporting limits less than the value detected in the Method Blank. Associated sample values were greater than approximately 10X the blank value and data was not affected.

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-33
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 6/27/2012 8:35:00 AM
Lab ID: 1207140-001	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	163538	1	07/06/2012 06:12	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 06:12	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 06:12	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 06:12	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-33
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 6/27/2012 8:35:00 AM
Lab ID: 1207140-001	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	163538	1	07/06/2012 06:12	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Trichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 06:12	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 06:12	NP
Surr: 4-Bromofluorobenzene	85.7	67.4-123		%REC	163538	1	07/06/2012 06:12	NP
Surr: Dibromofluoromethane	120	75.5-128		%REC	163538	1	07/06/2012 06:12	NP
Surr: Toluene-d8	97.7	70-120		%REC	163538	1	07/06/2012 06:12	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-32
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 11:25:00 AM
Lab ID: 1207140-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	16	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 02:23	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 02:23	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
cis-1,2-Dichloroethene	80	5.0		ug/L	163538	1	07/06/2012 02:23	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 02:23	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-32
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 11:25:00 AM
Lab ID: 1207140-002	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	163538	1	07/06/2012 02:23	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Trichloroethene	96	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:23	NP
Vinyl chloride	2.6	2.0		ug/L	163538	1	07/06/2012 02:23	NP
Surr: 4-Bromofluorobenzene	83.5	67.4-123		%REC	163538	1	07/06/2012 02:23	NP
Surr: Dibromofluoromethane	115	75.5-128		%REC	163538	1	07/06/2012 02:23	NP
Surr: Toluene-d8	98.7	70-120		%REC	163538	1	07/06/2012 02:23	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-39
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 2:10:00 PM
Lab ID: 1207140-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,1-Dichloroethene	7.6	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 02:52	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 02:52	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
cis-1,2-Dichloroethene	51	5.0		ug/L	163538	1	07/06/2012 02:52	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 02:52	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-39
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 2:10:00 PM
Lab ID: 1207140-003	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	163538	1	07/06/2012 02:52	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Trichloroethene	180	50		ug/L	163538	10	07/07/2012 00:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 02:52	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 02:52	NP
Surr: 4-Bromofluorobenzene	85	67.4-123		%REC	163538	1	07/06/2012 02:52	NP
Surr: 4-Bromofluorobenzene	85.7	67.4-123		%REC	163538	10	07/07/2012 00:11	NP
Surr: Dibromofluoromethane	110	75.5-128		%REC	163538	10	07/07/2012 00:11	NP
Surr: Dibromofluoromethane	116	75.5-128		%REC	163538	1	07/06/2012 02:52	NP
Surr: Toluene-d8	93.5	70-120		%REC	163538	10	07/07/2012 00:11	NP
Surr: Toluene-d8	98.2	70-120		%REC	163538	1	07/06/2012 02:52	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-37
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 3:15:00 PM
Lab ID: 1207140-004	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	163538	1	07/06/2012 03:21	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 03:21	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 03:21	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
cis-1,2-Dichloroethene	9.4	5.0		ug/L	163538	1	07/06/2012 03:21	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 03:21	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-37
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 3:15:00 PM
Lab ID: 1207140-004	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	163538	1	07/06/2012 03:21	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Trichloroethene	15	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:21	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 03:21	NP
Surr: 4-Bromofluorobenzene	83	67.4-123		%REC	163538	1	07/06/2012 03:21	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	163538	1	07/06/2012 03:21	NP
Surr: Toluene-d8	94.2	70-120		%REC	163538	1	07/06/2012 03:21	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-31
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 3:50:00 PM
Lab ID: 1207140-005	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	163538	1	07/06/2012 03:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 03:49	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 03:49	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
cis-1,2-Dichloroethene	16	5.0		ug/L	163538	1	07/06/2012 03:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 03:49	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-31
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/1/2012 3:50:00 PM
Lab ID: 1207140-005	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	163538	1	07/06/2012 03:49	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Trichloroethene	19	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 03:49	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 03:49	NP
Surr: 4-Bromofluorobenzene	91.5	67.4-123		%REC	163538	1	07/06/2012 03:49	NP
Surr: Dibromofluoromethane	116	75.5-128		%REC	163538	1	07/06/2012 03:49	NP
Surr: Toluene-d8	92.3	70-120		%REC	163538	1	07/06/2012 03:49	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-38
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 10:05:00 AM
Lab ID: 1207140-006	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	20	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,1-Dichloroethene	10	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 04:18	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 04:18	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
cis-1,2-Dichloroethene	150	5.0		ug/L	163538	1	07/06/2012 04:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 04:18	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-38
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 10:05:00 AM
Lab ID: 1207140-006	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	163538	1	07/06/2012 04:18	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Trichloroethene	290	50		ug/L	163538	10	07/07/2012 00:40	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:18	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 04:18	NP
Surr: 4-Bromofluorobenzene	79.2	67.4-123		%REC	163538	10	07/07/2012 00:40	NP
Surr: 4-Bromofluorobenzene	85.5	67.4-123		%REC	163538	1	07/06/2012 04:18	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	163538	10	07/07/2012 00:40	NP
Surr: Dibromofluoromethane	122	75.5-128		%REC	163538	1	07/06/2012 04:18	NP
Surr: Toluene-d8	87.8	70-120		%REC	163538	10	07/07/2012 00:40	NP
Surr: Toluene-d8	95.3	70-120		%REC	163538	1	07/06/2012 04:18	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-35
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 11:00:00 AM
Lab ID: 1207140-007	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	163538	1	07/06/2012 04:46	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 04:46	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 04:46	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 04:46	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-35
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 11:00:00 AM
Lab ID: 1207140-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Trichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 04:46	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 04:46	NP
Surr: 4-Bromofluorobenzene	87	67.4-123		%REC	163538	1	07/06/2012 04:46	NP
Surr: Dibromofluoromethane	125	75.5-128		%REC	163538	1	07/06/2012 04:46	NP
Surr: Toluene-d8	98.1	70-120		%REC	163538	1	07/06/2012 04:46	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-39
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 7:30:00 PM
Lab ID: 1207140-008	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	163538	1	07/06/2012 05:15	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
2-Butanone	BRL	50		ug/L	163538	1	07/06/2012 05:15	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
Acetone	BRL	50		ug/L	163538	1	07/06/2012 05:15	NP
Benzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Chloroethane	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Chloromethane	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Freon-113	BRL	10		ug/L	163538	1	07/06/2012 05:15	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-39
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/2/2012 7:30:00 PM
Lab ID: 1207140-008	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	163538	1	07/06/2012 05:15	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Toluene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Trichloroethene	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/06/2012 05:15	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/06/2012 05:15	NP
Surr: 4-Bromofluorobenzene	84.9	67.4-123		%REC	163538	1	07/06/2012 05:15	NP
Surr: Dibromofluoromethane	116	75.5-128		%REC	163538	1	07/06/2012 05:15	NP
Surr: Toluene-d8	94.9	70-120		%REC	163538	1	07/06/2012 05:15	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-30
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/3/2012 7:55:00 AM
Lab ID: 1207140-009	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	163538	1	07/09/2012 16:16	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
2-Butanone	BRL	50		ug/L	163538	1	07/09/2012 16:16	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
Acetone	BRL	50		ug/L	163538	1	07/09/2012 16:16	NP
Benzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Chloroethane	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Chloromethane	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
cis-1,2-Dichloroethene	11	5.0		ug/L	163538	1	07/09/2012 16:16	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Freon-113	BRL	10		ug/L	163538	1	07/09/2012 16:16	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-30
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/3/2012 7:55:00 AM
Lab ID: 1207140-009	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	163538	1	07/09/2012 16:16	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Toluene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Trichloroethene	21	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/09/2012 16:16	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/09/2012 16:16	NP
Surr: 4-Bromofluorobenzene	87.7	67.4-123		%REC	163538	1	07/09/2012 16:16	NP
Surr: Dibromofluoromethane	86.4	75.5-128		%REC	163538	1	07/09/2012 16:16	NP
Surr: Toluene-d8	93	70-120		%REC	163538	1	07/09/2012 16:16	NP

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/3/2012
Lab ID: 1207140-010	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	163538	1	07/05/2012 22:34	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,1-Dichloroethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,1-Dichloroethene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2-Dibromoethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2-Dichloroethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,2-Dichloropropane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
2-Butanone	BRL	50		ug/L	163538	1	07/05/2012 22:34	NP
2-Hexanone	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
4-Methyl-2-pentanone	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
Acetone	BRL	50		ug/L	163538	1	07/05/2012 22:34	NP
Benzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Bromodichloromethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Bromoform	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Bromomethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Carbon disulfide	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Carbon tetrachloride	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Chlorobenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Chloroethane	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
Chloroform	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Chloromethane	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Cyclohexane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Dibromochloromethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Dichlorodifluoromethane	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
Ethylbenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Freon-113	BRL	10		ug/L	163538	1	07/05/2012 22:34	NP
Isopropylbenzene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
m,p-Xylene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Methyl acetate	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Methylcyclohexane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Methylene chloride	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
o-Xylene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 17-Jul-12

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank (Cedartown)	Collection Date: 7/3/2012
Lab ID: 1207140-010	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	163538	1	07/05/2012 22:34	NP
Tetrachloroethene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Toluene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Trichloroethene	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Trichlorofluoromethane	BRL	5.0		ug/L	163538	1	07/05/2012 22:34	NP
Vinyl chloride	BRL	2.0		ug/L	163538	1	07/05/2012 22:34	NP
Surr: 4-Bromofluorobenzene	82.3	67.4-123		%REC	163538	1	07/05/2012 22:34	NP
Surr: Dibromofluoromethane	101	75.5-128		%REC	163538	1	07/05/2012 22:34	NP
Surr: Toluene-d8	95.1	70-120		%REC	163538	1	07/05/2012 22:34	NP

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM

Work Order Number 1207140

Checklist completed by [Signature] Date 7/3/12

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.

Client: CDM Smith Inc.
Project: Former Manchester Tank (Cedartown)
Lab Order: 1207140

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207140-001A	MW-33	6/27/2012 8:35:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-002A	MW-32	7/1/2012 11:25:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-003A	MW-39	7/1/2012 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-003A	MW-39	7/1/2012 2:10:00PM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/07/2012
1207140-004A	MW-37	7/1/2012 3:15:00PM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-005A	MW-31	7/1/2012 3:50:00PM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-006A	MW-38	7/2/2012 10:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-006A	MW-38	7/2/2012 10:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/07/2012
1207140-007A	MW-35	7/2/2012 11:00:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-008A	MW-39	7/2/2012 7:30:00PM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/06/2012
1207140-009A	MW-30	7/3/2012 7:55:00AM	Groundwater	TCL VOLATILE ORGANICS		07/05/2012	07/09/2012
1207140-010A	TRIP BLANK	7/3/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		07/05/2012	07/05/2012

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank (Cedartown)
 Workorder: 1207140

ANALYTICAL QC SUMMARY REPORT

BatchID: 163538

Sample ID: MB-163538	Client ID:	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698450

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank (Cedartown)
Workorder: 1207140

ANALYTICAL QC SUMMARY REPORT

BatchID: 163538

Sample ID: MB-163538	Client ID:	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698450							
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	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	13.75	5.0	0	0	0	0	0	0	0	0	B
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.62	0	50	0	85.2	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.17	0	50	0	98.3	75.5	128	0	0	0	
Surr: Toluene-d8	48.13	0	50	0	96.3	70	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank (Cedartown)
Workorder: 1207140

ANALYTICAL QC SUMMARY REPORT

BatchID: 163538

Sample ID: LCS-163538	Client ID:	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698447							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.27	5.0	50	0	123	60	140	0	0	0	
Benzene	61.61	5.0	50	0	123	70	130	0	0	0	
Chlorobenzene	50.19	5.0	50	0	100	70	130	0	0	0	
Toluene	55.49	5.0	50	0	111	70	130	0	0	0	
Trichloroethene	47.81	5.0	50	0	95.6	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	53.65	0	50	0	107	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.23	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	48.03	0	50	0	96.1	70	120	0	0	0	

Sample ID: 1207140-001AMS	Client ID: MW-33	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698448							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	671.6	50	500	0	134	50.1	179	0	0	0	
Benzene	623.8	50	500	0	125	61.2	150	0	0	0	
Chlorobenzene	500.5	50	500	0	100	72.1	140	0	0	0	
Toluene	563.3	50	500	0	113	58.7	154	0	0	0	
Trichloroethene	500.8	50	500	0	100	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	513.0	0	500	0	103	67.4	123	0	0	0	
Surr: Dibromofluoromethane	484.5	0	500	0	96.9	75.5	128	0	0	0	
Surr: Toluene-d8	467.0	0	500	0	93.4	70	120	0	0	0	

Sample ID: 1207140-001AMSD	Client ID: MW-33	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698449							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	606.9	50	500	0	121	50.1	179	671.6	10.1	23.3	
Benzene	592.1	50	500	0	118	61.2	150	623.8	5.21	19	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank (Cedartown)
Workorder: 1207140

ANALYTICAL QC SUMMARY REPORT

BatchID: 163538

Sample ID: 1207140-001AMSD	Client ID: MW-33	Units: ug/L	Prep Date: 07/05/2012	Run No: 224536							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 163538	Analysis Date: 07/05/2012	Seq No: 4698449							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	471.5	50	500	0	94.3	72.1	140	500.5	5.97	21.5	
Toluene	570.3	50	500	0	114	58.7	154	563.3	1.24	20	
Trichloroethene	461.1	50	500	0	92.2	68.3	149	500.8	8.25	17.7	
Surr: 4-Bromofluorobenzene	510.4	0	500	0	102	67.4	123	513.0	0	0	
Surr: Dibromofluoromethane	511.3	0	500	0	102	75.5	128	484.5	0	0	
Surr: Toluene-d8	510.3	0	500	0	102	70	120	467.0	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		



July 28, 2012

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank

Dear Andrew Romanek:

Order No: 1207E25

Analytical Environmental Services, Inc. received 56 samples on 7/19/2012 3:15:00 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 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
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: 1207E25

Date: 7/16/12 Page 1 of 4

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS		No # of Containers	
CDM Smith		3715 Northside Parkway NW B-300 S. 4100 Atlanta, GA 30327		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.					
PHONE: 404-720-1400		SIGNATURE: <i>Nick Fuller</i>		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: Nick Fuller		SIGNED: <i>Nick Fuller</i>		H+I					
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix			
1	DUP-1	7/16/12	0800	X		GW	X		3
2	MW-20B		1300	X					
3	MW-18B		1345						
4	MW-19C		1415						
5	MW-11B		1455						
6	MW-10B		1540						
7	MW-36C		1645						
8	MW-5B		1645						
9	DUP-2	7/17/12	0800						
10	MW-30A		0925						
11	MW-38C		1010						
12	MW-1B		1100						
13	MW-35D		1330						
14	MW-33A		1335						
RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION					
<i>Nick Fuller</i>	7/16/12 1515	<i>Nick Fuller</i>	7/19/12 3:15	PROJECT NAME: Former Manchester Tank					
				PROJECT #: [blank]					
				SITE ADDRESS: Cedarstown, GA					
				SEND REPORT TO: A. Romanek / T. Duffey					
				INVOICE TO: (IF DIFFERENT FROM ABOVE) romanek A@aecomsmith.com duffey JT@aecomsmith.com					
SPECIAL INSTRUCTIONS/COMMENTS:				QUOTE #:					
				SHIPMENT METHOD: [blank]					
				OUT: [blank]					
				IN: [blank]					
				VIA: [blank]					
				VIA: [blank]					
				CLIENT: [blank]					
				FedEx: [blank]					
				UPS: [blank]					
				MAIL: [blank]					
				COURIER: [blank]					
				GREYHOUND: [blank]					
				OTHER: [blank]					
				STATE PROGRAM (if any): [blank]					
				E-mail? Y/N: [blank]					
				Fax? Y/N: [blank]					
				DATA PACKAGE: I II III IV					
				Turnaround Time Request: [blank]					
				Standard 5 Business Days: [blank]					
				2 Business Day Rush: [blank]					
				Next Business Day Rush: [blank]					
				Same Day Rush (auth req): [blank]					
				Other: [blank]					
				Total # of Containers: 28					

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
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: 1207E25

Date: 7/17/12 Page 2 of 4

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS		No # of Containers	
CDM Smith		375 Northside Parkway NW B-300 S. 400 Atlanta, GA 30327		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		PRESERVATION (See codes)		2	
PHONE: 404-720-1400		SIGNATURE: <i>Nick Fuller</i>		PRESERVATION (See codes)		REMARKS			
SAMPLED BY: Nick Fuller		SIGNED: <i>Nick Fuller</i>		PRESERVATION (See codes)		REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix			
1	MW-37C	7/17/12	1435	X		GW			
2	MW-32B		1456						
3	MW-31C		1530						
4	MW-4B		1556						
5	MW-34B		1630						
6	MW-25A		1655						
7	MW-40C		1715						
8	MW-39C	7/18/12	0850						
9	DUP-3		0800						
10	DUP-4		0830						
11	MW-14C		0930						
12	MW-17C		1005						
13	MW-15B		1018						
14	MW-41C		1050						
RELINQUISHED BY: <i>Nick Fuller</i>		DATE/TIME RECEIVED BY: <i>Nick Fuller</i>		DATE/TIME		PROJECT INFORMATION		RECEIPT	
		7/19/12 1515		7/19/12 3:15		PROJECT NAME: Former Manchester Tank		Total # of Containers 28	
						PROJECT #:		Turnaround Time Request	
						SITE ADDRESS: Cedartown, GA		Standard 5 Business Days	
						SEND REPORT TO: A. Romanek / J. Duffey		2 Business Day Rush	
						INVOICE TO: (IF DIFFERENT FROM ABOVE)		Next Business Day Rush	
						ROMANEK@COMSMITH.COM		Same Day Rush (auth req.)	
						DUFFEY@COMSMITH.COM		Other	
						SHIPMENT METHOD		STATE PROGRAM (if any)	
						OUT		E-mail? Y / N; Fax? Y / N	
						IN		DATA PACKAGE: I II III IV	
						CLIENT FedEx UPS MAIL COURIER			
						OTHER			
						SPECIAL INSTRUCTIONS/COMMENTS:			

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.

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ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1207E25

Date: 7/18/12 Page 3 of 4

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED			REMARKS	No # of Containers
		DATE	TIME				TEL VOLS (8260)	PRESERVATION (See codes)			
1	MW-9B	7/18/12	10:05	X		GW					2
2	MW-16A		11:35								2
3	MW-27A		13:20								2
4	MW-26A		13:23								2
5	MW-6A		14:20								2
6	MW-13C		15:10								2
7	MW-38A		15:45								2
8	MW-12C		16:25								2
9	MW-8B		17:05								2
10	MW-29A		17:50								2
11	MW-7C		18:25								2
12	FDW #1	7/19/12	08:30		X	SO					1
13	FDW #2		08:35		X	SO					1
14	FDW #3		08:40		X	SO					1
RELINQUISHED BY: <i>[Signature]</i> DATE/TIME: 7/19/12 3:15 RECEIVED BY: <i>[Signature]</i> DATE/TIME: 7/19/12 3:15 PROJECT NAME: Former Manchester Tank PROJECT #: Cedartown, GA SITE ADDRESS: Cedartown, GA SEND REPORT TO: A. Romanek / T. Duffry INVOICE TO: Romanek AP@cdmsmith.com (IF DIFFERENT FROM ABOVE) clw@jtyt@cdmsmith.com QUOTE #: PO#:											
SPECIAL INSTRUCTIONS/COMMENTS: SHIPMENT METHOD: COURIER OUT VIA: COURIER IN VIA: COURIER CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER											
VISIT OUR WEBSITE: www.aesatlanta.com TO CHECK ON THE STATUS OF YOUR RESULTS, PLACE BOTTLE ORDERS, ETC.											

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.

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CHAIN OF CUSTODY

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

#	SAMPLE ID	DATE	TIME	PRESERVATION (See codes)			REMARKS	No # of Containers
				Grab	Composite	Matrix (See codes)		
1	IDW #4	7/19/12	0845	X	X	SO	SOIL #26-39	1
2	#DW #5		0850	X	X	SO	SOIL #40-54	1
3	IDW #6		0855	X	X	SO	DUMPS #40-54	1
4	IDW #7		0900	X	X	SO	SOIL #1-13	1
5	#DW #8		0905	X	X	SO	DUMPS #14-26	1
6	IDW #9		0910	X	X	SO	MW-43 Soil	1
7	IDW #10		0915	X	X	SO	MW-43 Soil	1
8	MW-21C		1105	X	X	GW		2
9	MW-24B		1115	X	X	GW		2
10	MW-22C		1140	X	X	GW		2
11	IDW #11		1210	X	X	GW	H2O Dumps 1-3	2
12	IDW #12		1215	X	X	GW	H2O Dumps 4-7	2
13	IDW #13		1220	X	X	GW	H2O Bullock Dumps	2
14	TRIP Blank			X	X	GW		2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
<i>[Signature]</i>	7/19/12 1515	<i>[Signature]</i>	7/19/12 3:15

ANALYSIS REQUESTED	PROJECT INFORMATION
VOCs 8262 TCP VOCs TCP Metals	PROJECT NAME: <i>Famer Manchester Tank</i> PROJECT #: _____ SITE ADDRESS: <i>Cedar town, GA</i> SEND REPORT TO: <i>A. Romanek / T. Duffy</i> INVOICE TO: <i>Romanek ARE com smith.com</i> <i>Duffy JTE com smith.com</i>

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	RECEIPT
	Total # of Containers: 21

SPECIAL INSTRUCTIONS/COMMENTS:	SHIPMENT METHOD
	OUT: _____ IN: _____ VIA: _____ CLIENT: _____ FedEx _____ UPS MAIL _____ COURIER _____ GREYHOUND _____ OTHER _____

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White Copy - Original; Yellow Copy - Client

Client: CDM Smith Inc.
Project: Former Manchester Tank
Lab ID: 1207E25

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Sample 1207E25-022A as received did not meet method specified preservation requirements of pH <2. The laboratory proceeded with analysis.

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1207E25-023A was outside control limits biased low due to suspected matrix interference.

Three 1-Liter amber glass jars were received for sample IDW #11 instead of two as indicated on the Chain of Custody (COC). One was labeled with the collection time 12:10pm which matched the COC, and two were labeled with a collection time 12:15pm. The IDW #11 bottle with the time of 12:10pm was used for analysis and the other two were placed on hold.

One 1-Liter amber glass jar was received for sample IDW #12 instead of two as indicated on the COC. The collection time was indicated as 12:15pm. The laboratory proceeded with analysis.

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-1
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 8:00:00 AM
Lab ID: 1207E25-001	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	164183	1	07/23/2012 22:08	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
2-Butanone	BRL	50		ug/L	164183	1	07/23/2012 22:08	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
Acetone	BRL	50		ug/L	164183	1	07/23/2012 22:08	NP
Benzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Chloroethane	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Chloromethane	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
cis-1,2-Dichloroethene	6.6	5.0		ug/L	164183	1	07/23/2012 22:08	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Freon-113	BRL	10		ug/L	164183	1	07/23/2012 22:08	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: DUP-1
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 8:00:00 AM
Lab ID: 1207E25-001	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	164183	1	07/23/2012 22:08	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Toluene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Trichloroethene	24	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:08	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/23/2012 22:08	NP
Surr: 4-Bromofluorobenzene	86.3	67.4-123		%REC	164183	1	07/23/2012 22:08	NP
Surr: Dibromofluoromethane	128	75.5-128		%REC	164183	1	07/23/2012 22:08	NP
Surr: Toluene-d8	92.2	70-120		%REC	164183	1	07/23/2012 22:08	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-20B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 1:00:00 PM
Lab ID: 1207E25-002	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	164183	1	07/23/2012 22:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
2-Butanone	BRL	50		ug/L	164183	1	07/23/2012 22:37	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
Acetone	BRL	50		ug/L	164183	1	07/23/2012 22:37	NP
Benzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Chloroethane	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Chloromethane	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Freon-113	BRL	10		ug/L	164183	1	07/23/2012 22:37	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP

Qualifiers:

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- H Holding times for preparation or analysis exceeded
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- B Analyte detected in the associated method blank
- > Greater than Result value

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-20B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 1:00:00 PM
Lab ID: 1207E25-002	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	164183	1	07/23/2012 22:37	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Toluene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Trichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/23/2012 22:37	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/23/2012 22:37	NP
Surr: 4-Bromofluorobenzene	82	67.4-123		%REC	164183	1	07/23/2012 22:37	NP
Surr: Dibromofluoromethane	122	75.5-128		%REC	164183	1	07/23/2012 22:37	NP
Surr: Toluene-d8	87.5	70-120		%REC	164183	1	07/23/2012 22:37	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-18B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 1:45:00 PM
Lab ID: 1207E25-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	5.8	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,1-Dichloroethane	5.3	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,1-Dichloroethene	10	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
2-Butanone	BRL	50		ug/L	164183	1	07/23/2012 23:05	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
Acetone	BRL	50		ug/L	164183	1	07/23/2012 23:05	NP
Benzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Chloroethane	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Chloromethane	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
cis-1,2-Dichloroethene	620	50		ug/L	164183	10	07/24/2012 11:08	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Freon-113	BRL	10		ug/L	164183	1	07/23/2012 23:05	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-18B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 1:45:00 PM
Lab ID: 1207E25-003	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	164183	1	07/23/2012 23:05	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Toluene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
trans-1,2-Dichloroethene	6.0	5.0		ug/L	164183	1	07/23/2012 23:05	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Trichloroethene	180	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:05	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/23/2012 23:05	NP
Surr: 4-Bromofluorobenzene	79.9	67.4-123		%REC	164183	1	07/23/2012 23:05	NP
Surr: 4-Bromofluorobenzene	83	67.4-123		%REC	164183	10	07/24/2012 11:08	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	164183	10	07/24/2012 11:08	NP
Surr: Dibromofluoromethane	127	75.5-128		%REC	164183	1	07/23/2012 23:05	NP
Surr: Toluene-d8	88.3	70-120		%REC	164183	10	07/24/2012 11:08	NP
Surr: Toluene-d8	90.8	70-120		%REC	164183	1	07/23/2012 23:05	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-19C
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 2:15:00 PM
Lab ID: 1207E25-004	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	164183	1	07/23/2012 23:34	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
2-Butanone	BRL	50		ug/L	164183	1	07/23/2012 23:34	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
Acetone	BRL	50		ug/L	164183	1	07/23/2012 23:34	NP
Benzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Chloroethane	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Chloromethane	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Freon-113	BRL	10		ug/L	164183	1	07/23/2012 23:34	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-19C
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 2:15:00 PM
Lab ID: 1207E25-004	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	164183	1	07/23/2012 23:34	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Toluene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Trichloroethene	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/23/2012 23:34	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/23/2012 23:34	NP
Surr: 4-Bromofluorobenzene	88.7	67.4-123		%REC	164183	1	07/23/2012 23:34	NP
Surr: Dibromofluoromethane	127	75.5-128		%REC	164183	1	07/23/2012 23:34	NP
Surr: Toluene-d8	90.1	70-120		%REC	164183	1	07/23/2012 23:34	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-11B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 2:55:00 PM
Lab ID: 1207E25-005	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	164183	1	07/24/2012 00:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 00:03	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 00:03	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
cis-1,2-Dichloroethene	130	5.0		ug/L	164183	1	07/24/2012 00:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 00:03	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-11B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 2:55:00 PM
Lab ID: 1207E25-005	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	164183	1	07/24/2012 00:03	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Trichloroethene	38	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:03	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 00:03	NP
Surr: 4-Bromofluorobenzene	80.9	67.4-123		%REC	164183	1	07/24/2012 00:03	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	164183	1	07/24/2012 00:03	NP
Surr: Toluene-d8	93.3	70-120		%REC	164183	1	07/24/2012 00:03	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-10B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 3:40:00 PM
Lab ID: 1207E25-006	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	164183	1	07/24/2012 00:32	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 00:32	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 00:32	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
cis-1,2-Dichloroethene	8.8	5.0		ug/L	164183	1	07/24/2012 00:32	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 00:32	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-10B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 3:40:00 PM
Lab ID: 1207E25-006	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	164183	1	07/24/2012 00:32	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Trichloroethene	25	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 00:32	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 00:32	NP
Surr: 4-Bromofluorobenzene	77.3	67.4-123		%REC	164183	1	07/24/2012 00:32	NP
Surr: Dibromofluoromethane	103	75.5-128		%REC	164183	1	07/24/2012 00:32	NP
Surr: Toluene-d8	89.8	70-120		%REC	164183	1	07/24/2012 00:32	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-36C
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 4:45:00 PM
Lab ID: 1207E25-007	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	164183	1	07/24/2012 01:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,1-Dichloroethene	9.2	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 01:00	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 01:00	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
cis-1,2-Dichloroethene	55	5.0		ug/L	164183	1	07/24/2012 01:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 01:00	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-36C
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 4:45:00 PM
Lab ID: 1207E25-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Trichloroethene	180	50		ug/L	164183	10	07/24/2012 11:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:00	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 01:00	NP
Surr: 4-Bromofluorobenzene	80.9	67.4-123		%REC	164183	10	07/24/2012 11:37	NP
Surr: 4-Bromofluorobenzene	82.4	67.4-123		%REC	164183	1	07/24/2012 01:00	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	164183	1	07/24/2012 01:00	NP
Surr: Dibromofluoromethane	111	75.5-128		%REC	164183	10	07/24/2012 11:37	NP
Surr: Toluene-d8	94.6	70-120		%REC	164183	10	07/24/2012 11:37	NP
Surr: Toluene-d8	96.2	70-120		%REC	164183	1	07/24/2012 01:00	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-5B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 4:45:00 PM
Lab ID: 1207E25-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	34	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,1-Dichloroethene	13	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 01:29	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 01:29	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
cis-1,2-Dichloroethene	180	5.0		ug/L	164183	1	07/24/2012 01:29	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 01:29	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-5B
Project Name: Former Manchester Tank	Collection Date: 7/16/2012 4:45:00 PM
Lab ID: 1207E25-008	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	164183	1	07/24/2012 01:29	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Trichloroethene	300	50		ug/L	164183	10	07/24/2012 12:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:29	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 01:29	NP
Surr: 4-Bromofluorobenzene	80.9	67.4-123		%REC	164183	1	07/24/2012 01:29	NP
Surr: 4-Bromofluorobenzene	80.8	67.4-123		%REC	164183	10	07/24/2012 12:06	NP
Surr: Dibromofluoromethane	112	75.5-128		%REC	164183	10	07/24/2012 12:06	NP
Surr: Dibromofluoromethane	120	75.5-128		%REC	164183	1	07/24/2012 01:29	NP
Surr: Toluene-d8	91.6	70-120		%REC	164183	10	07/24/2012 12:06	NP
Surr: Toluene-d8	94.9	70-120		%REC	164183	1	07/24/2012 01:29	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-2
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 8:00:00 AM
Lab ID: 1207E25-009	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	164183	1	07/24/2012 01:58	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 01:58	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 01:58	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
cis-1,2-Dichloroethene	23	5.0		ug/L	164183	1	07/24/2012 01:58	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 01:58	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-2
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 8:00:00 AM
Lab ID: 1207E25-009	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	164183	1	07/24/2012 01:58	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Trichloroethene	40	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 01:58	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 01:58	NP
Surr: 4-Bromofluorobenzene	81.8	67.4-123		%REC	164183	1	07/24/2012 01:58	NP
Surr: Dibromofluoromethane	114	75.5-128		%REC	164183	1	07/24/2012 01:58	NP
Surr: Toluene-d8	92.9	70-120		%REC	164183	1	07/24/2012 01:58	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-30A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 9:25:00 AM
Lab ID: 1207E25-010	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	164183	1	07/24/2012 02:26	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 02:26	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 02:26	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
cis-1,2-Dichloroethene	12	5.0		ug/L	164183	1	07/24/2012 02:26	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 02:26	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-30A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 9:25:00 AM
Lab ID: 1207E25-010	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	164183	1	07/24/2012 02:26	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Trichloroethene	25	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:26	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 02:26	NP
Surr: 4-Bromofluorobenzene	79.5	67.4-123		%REC	164183	1	07/24/2012 02:26	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	164183	1	07/24/2012 02:26	NP
Surr: Toluene-d8	97.2	70-120		%REC	164183	1	07/24/2012 02:26	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-38C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 10:10:00 AM
Lab ID: 1207E25-011	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	164183	1	07/24/2012 02:55	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 02:55	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 02:55	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
cis-1,2-Dichloroethene	17	5.0		ug/L	164183	1	07/24/2012 02:55	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 02:55	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-38C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 10:10:00 AM
Lab ID: 1207E25-011	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	164183	1	07/24/2012 02:55	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Trichloroethene	30	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 02:55	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 02:55	NP
Surr: 4-Bromofluorobenzene	84.4	67.4-123		%REC	164183	1	07/24/2012 02:55	NP
Surr: Dibromofluoromethane	117	75.5-128		%REC	164183	1	07/24/2012 02:55	NP
Surr: Toluene-d8	96.8	70-120		%REC	164183	1	07/24/2012 02:55	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-1B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 11:00:00 AM
Lab ID: 1207E25-012	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	164183	1	07/24/2012 03:24	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 03:24	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 03:24	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 03:24	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-1B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 11:00:00 AM
Lab ID: 1207E25-012	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	164183	1	07/24/2012 03:24	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Trichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:24	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 03:24	NP
Surr: 4-Bromofluorobenzene	80.8	67.4-123		%REC	164183	1	07/24/2012 03:24	NP
Surr: Dibromofluoromethane	108	75.5-128		%REC	164183	1	07/24/2012 03:24	NP
Surr: Toluene-d8	90.2	70-120		%REC	164183	1	07/24/2012 03:24	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-35D
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 1:30:00 PM
Lab ID: 1207E25-013	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	164183	1	07/24/2012 03:53	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 03:53	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 03:53	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 03:53	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-35D
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 1:30:00 PM
Lab ID: 1207E25-013	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	164183	1	07/24/2012 03:53	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Trichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 03:53	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 03:53	NP
Surr: 4-Bromofluorobenzene	82.5	67.4-123		%REC	164183	1	07/24/2012 03:53	NP
Surr: Dibromofluoromethane	123	75.5-128		%REC	164183	1	07/24/2012 03:53	NP
Surr: Toluene-d8	94.3	70-120		%REC	164183	1	07/24/2012 03:53	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-33A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 1:35:00 PM
Lab ID: 1207E25-014	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	164183	1	07/24/2012 13:03	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 13:03	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 13:03	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 13:03	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-33A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 1:35:00 PM
Lab ID: 1207E25-014	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	164183	1	07/24/2012 13:03	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Trichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 13:03	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 13:03	NP
Surr: 4-Bromofluorobenzene	83.8	67.4-123		%REC	164183	1	07/24/2012 13:03	NP
Surr: Dibromofluoromethane	111	75.5-128		%REC	164183	1	07/24/2012 13:03	NP
Surr: Toluene-d8	89.2	70-120		%REC	164183	1	07/24/2012 13:03	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-37C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 2:35:00 PM
Lab ID: 1207E25-015	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	21	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 14:59	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 14:59	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
cis-1,2-Dichloroethene	130	5.0		ug/L	164183	1	07/24/2012 14:59	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 14:59	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-37C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 2:35:00 PM
Lab ID: 1207E25-015	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	164183	1	07/24/2012 14:59	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Trichloroethene	280	50		ug/L	164183	10	07/24/2012 12:35	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 14:59	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 14:59	NP
Surr: 4-Bromofluorobenzene	75.7	67.4-123		%REC	164183	10	07/24/2012 12:35	NP
Surr: 4-Bromofluorobenzene	88	67.4-123		%REC	164183	1	07/24/2012 14:59	NP
Surr: Dibromofluoromethane	109	75.5-128		%REC	164183	1	07/24/2012 14:59	NP
Surr: Dibromofluoromethane	114	75.5-128		%REC	164183	10	07/24/2012 12:35	NP
Surr: Toluene-d8	88.6	70-120		%REC	164183	1	07/24/2012 14:59	NP
Surr: Toluene-d8	94.7	70-120		%REC	164183	10	07/24/2012 12:35	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-32B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 2:56:00 PM
Lab ID: 1207E25-016	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	21	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,1-Dichloroethane	5.0	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 05:20	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 05:20	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
cis-1,2-Dichloroethene	160	5.0		ug/L	164183	1	07/24/2012 05:20	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 05:20	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-32B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 2:56:00 PM
Lab ID: 1207E25-016	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	164183	1	07/24/2012 05:20	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Trichloroethene	76	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:20	NP
Vinyl chloride	3.4	2.0		ug/L	164183	1	07/24/2012 05:20	NP
Surr: 4-Bromofluorobenzene	76.7	67.4-123		%REC	164183	1	07/24/2012 05:20	NP
Surr: Dibromofluoromethane	114	75.5-128		%REC	164183	1	07/24/2012 05:20	NP
Surr: Toluene-d8	89.7	70-120		%REC	164183	1	07/24/2012 05:20	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-31C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 3:30:00 PM
Lab ID: 1207E25-017	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	5.7	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
2-Butanone	BRL	50		ug/L	164183	1	07/24/2012 05:48	NP
2-Hexanone	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
Acetone	BRL	50		ug/L	164183	1	07/24/2012 05:48	NP
Benzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Bromodichloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Bromoform	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Bromomethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Carbon disulfide	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Carbon tetrachloride	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Chlorobenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Chloroethane	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
Chloroform	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Chloromethane	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
cis-1,2-Dichloroethene	25	5.0		ug/L	164183	1	07/24/2012 05:48	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Cyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Dibromochloromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Dichlorodifluoromethane	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
Ethylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Freon-113	BRL	10		ug/L	164183	1	07/24/2012 05:48	NP
Isopropylbenzene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
m,p-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Methyl acetate	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Methylcyclohexane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Methylene chloride	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
o-Xylene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-31C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 3:30:00 PM
Lab ID: 1207E25-017	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	164183	1	07/24/2012 05:48	NP
Tetrachloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Toluene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Trichloroethene	37	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164183	1	07/24/2012 05:48	NP
Vinyl chloride	BRL	2.0		ug/L	164183	1	07/24/2012 05:48	NP
Surr: 4-Bromofluorobenzene	76.4	67.4-123		%REC	164183	1	07/24/2012 05:48	NP
Surr: Dibromofluoromethane	111	75.5-128		%REC	164183	1	07/24/2012 05:48	NP
Surr: Toluene-d8	90	70-120		%REC	164183	1	07/24/2012 05:48	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-4B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 3:56:00 PM
Lab ID: 1207E25-018	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	43	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,1-Dichloroethene	9.7	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 10:51	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 10:51	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
cis-1,2-Dichloroethene	170	5.0		ug/L	164240	1	07/25/2012 10:51	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 10:51	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-4B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 3:56:00 PM
Lab ID: 1207E25-018	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	164240	1	07/25/2012 10:51	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Trichloroethene	320	50		ug/L	164240	10	07/24/2012 16:26	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:51	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 10:51	NP
Surr: 4-Bromofluorobenzene	78.3	67.4-123		%REC	164240	10	07/24/2012 16:26	NP
Surr: 4-Bromofluorobenzene	82	67.4-123		%REC	164240	1	07/25/2012 10:51	NP
Surr: Dibromofluoromethane	107	75.5-128		%REC	164240	10	07/24/2012 16:26	NP
Surr: Dibromofluoromethane	116	75.5-128		%REC	164240	1	07/25/2012 10:51	NP
Surr: Toluene-d8	91.8	70-120		%REC	164240	1	07/25/2012 10:51	NP
Surr: Toluene-d8	91	70-120		%REC	164240	10	07/24/2012 16:26	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-34B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 4:30:00 PM
Lab ID: 1207E25-019	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	164240	1	07/25/2012 10:22	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 10:22	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 10:22	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 10:22	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-34B
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 4:30:00 PM
Lab ID: 1207E25-019	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	164240	1	07/25/2012 10:22	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Trichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 10:22	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 10:22	NP
Surr: 4-Bromofluorobenzene	82.3	67.4-123		%REC	164240	1	07/25/2012 10:22	NP
Surr: Dibromofluoromethane	114	75.5-128		%REC	164240	1	07/25/2012 10:22	NP
Surr: Toluene-d8	94	70-120		%REC	164240	1	07/25/2012 10:22	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-25A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 4:55:00 PM
Lab ID: 1207E25-020	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	164240	1	07/25/2012 11:20	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 11:20	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 11:20	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
cis-1,2-Dichloroethene	6.4	5.0		ug/L	164240	1	07/25/2012 11:20	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 11:20	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-25A
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 4:55:00 PM
Lab ID: 1207E25-020	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	164240	1	07/25/2012 11:20	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Trichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:20	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 11:20	NP
Surr: 4-Bromofluorobenzene	83.7	67.4-123		%REC	164240	1	07/25/2012 11:20	NP
Surr: Dibromofluoromethane	119	75.5-128		%REC	164240	1	07/25/2012 11:20	NP
Surr: Toluene-d8	99.5	70-120		%REC	164240	1	07/25/2012 11:20	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-40C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 5:15:00 PM
Lab ID: 1207E25-021	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	164240	1	07/25/2012 11:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 11:49	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 11:49	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 11:49	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-40C
Project Name: Former Manchester Tank	Collection Date: 7/17/2012 5:15:00 PM
Lab ID: 1207E25-021	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	164240	1	07/25/2012 11:49	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Trichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 11:49	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 11:49	NP
Surr: 4-Bromofluorobenzene	83.5	67.4-123		%REC	164240	1	07/25/2012 11:49	NP
Surr: Dibromofluoromethane	111	75.5-128		%REC	164240	1	07/25/2012 11:49	NP
Surr: Toluene-d8	89.9	70-120		%REC	164240	1	07/25/2012 11:49	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-39C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:50:00 AM
Lab ID: 1207E25-022	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	164240	1	07/25/2012 12:18	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 12:18	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 12:18	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 12:18	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-39C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:50:00 AM
Lab ID: 1207E25-022	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	164240	1	07/25/2012 12:18	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Trichloroethene	13	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 12:18	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 12:18	NP
Surr: 4-Bromofluorobenzene	75.8	67.4-123		%REC	164240	1	07/25/2012 12:18	NP
Surr: Dibromofluoromethane	113	75.5-128		%REC	164240	1	07/25/2012 12:18	NP
Surr: Toluene-d8	92.1	70-120		%REC	164240	1	07/25/2012 12:18	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-3
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:00:00 AM
Lab ID: 1207E25-023	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	164240	1	07/25/2012 16:33	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,1-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,1-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
2-Butanone	BRL	50		ug/L	164240	1	07/25/2012 16:33	NP
2-Hexanone	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
Acetone	BRL	50		ug/L	164240	1	07/25/2012 16:33	NP
Benzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Bromodichloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Bromoform	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Bromomethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Carbon disulfide	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Carbon tetrachloride	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Chlorobenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Chloroethane	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
Chloroform	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Chloromethane	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Cyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Dibromochloromethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Dichlorodifluoromethane	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
Ethylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Freon-113	BRL	10		ug/L	164240	1	07/25/2012 16:33	NP
Isopropylbenzene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
m,p-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Methyl acetate	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Methylcyclohexane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Methylene chloride	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
o-Xylene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-3
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:00:00 AM
Lab ID: 1207E25-023	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	164240	1	07/25/2012 16:33	NP
Tetrachloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Toluene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Trichloroethene	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Trichlorofluoromethane	BRL	5.0		ug/L	164240	1	07/25/2012 16:33	NP
Vinyl chloride	BRL	2.0		ug/L	164240	1	07/25/2012 16:33	NP
Surr: 4-Bromofluorobenzene	74.9	67.4-123		%REC	164240	1	07/25/2012 16:33	NP
Surr: Dibromofluoromethane	112	75.5-128		%REC	164240	1	07/25/2012 16:33	NP
Surr: Toluene-d8	87.5	70-120		%REC	164240	1	07/25/2012 16:33	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-4
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:30:00 AM
Lab ID: 1207E25-024	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	340	200		ug/L	164230	100	07/25/2012 15:36	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,1,2-Trichloroethane	7.5	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,1-Dichloroethane	100	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,1-Dichloroethene	330	200		ug/L	164230	100	07/25/2012 15:36	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 13:30	NP
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
Acetone	BRL	50		ug/L	164230	1	07/25/2012 13:30	NP
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
cis-1,2-Dichloroethene	15000	500		ug/L	164230	100	07/25/2012 15:36	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 13:30	NP
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: DUP-4
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 8:30:00 AM
Lab ID: 1207E25-024	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	164230	1	07/25/2012 13:30	NP
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
trans-1,2-Dichloroethene	240	200		ug/L	164230	100	07/25/2012 15:36	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Trichloroethene	8100	500		ug/L	164230	100	07/25/2012 15:36	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 13:30	NP
Vinyl chloride	3.0	2.0		ug/L	164230	1	07/25/2012 13:30	NP
Surr: 4-Bromofluorobenzene	76.5	67.4-123		%REC	164230	1	07/25/2012 13:30	NP
Surr: 4-Bromofluorobenzene	92.1	67.4-123		%REC	164230	100	07/25/2012 15:36	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	100	07/25/2012 15:36	NH
Surr: Dibromofluoromethane	117	75.5-128		%REC	164230	1	07/25/2012 13:30	NP
Surr: Toluene-d8	91.7	70-120		%REC	164230	1	07/25/2012 13:30	NP
Surr: Toluene-d8	92.8	70-120		%REC	164230	100	07/25/2012 15:36	NH

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

Client: CDM Smith Inc.	Client Sample ID: MW-14C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 9:30:00 AM
Lab ID: 1207E25-025	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	164230	1	07/25/2012 09:35	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 09:35	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 09:35	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 09:35	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-14C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 9:30:00 AM
Lab ID: 1207E25-025	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	164230	1	07/25/2012 09:35	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Trichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 09:35	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 09:35	NH
Surr: 4-Bromofluorobenzene	92.9	67.4-123		%REC	164230	1	07/25/2012 09:35	NH
Surr: Dibromofluoromethane	111	75.5-128		%REC	164230	1	07/25/2012 09:35	NH
Surr: Toluene-d8	94.3	70-120		%REC	164230	1	07/25/2012 09:35	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-17C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:05:00 AM
Lab ID: 1207E25-026	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	164230	1	07/25/2012 10:32	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 10:32	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 10:32	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 10:32	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-17C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:05:00 AM
Lab ID: 1207E25-026	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	164230	1	07/25/2012 10:32	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Trichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 10:32	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 10:32	NH
Surr: 4-Bromofluorobenzene	98.2	67.4-123		%REC	164230	1	07/25/2012 10:32	NH
Surr: Dibromofluoromethane	110	75.5-128		%REC	164230	1	07/25/2012 10:32	NH
Surr: Toluene-d8	91.3	70-120		%REC	164230	1	07/25/2012 10:32	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-15B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:18:00 AM
Lab ID: 1207E25-027	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	164230	1	07/25/2012 11:01	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 11:01	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 11:01	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
cis-1,2-Dichloroethene	52	5.0		ug/L	164230	1	07/25/2012 11:01	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 11:01	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-15B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:18:00 AM
Lab ID: 1207E25-027	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	164230	1	07/25/2012 11:01	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Trichloroethene	9.9	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:01	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 11:01	NH
Surr: 4-Bromofluorobenzene	93.5	67.4-123		%REC	164230	1	07/25/2012 11:01	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	1	07/25/2012 11:01	NH
Surr: Toluene-d8	91.7	70-120		%REC	164230	1	07/25/2012 11:01	NH

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

Client: CDM Smith Inc.	Client Sample ID: MW-41C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:50:00 AM
Lab ID: 1207E25-028	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	5.6	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,1-Dichloroethane	86	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,1-Dichloroethene	320	200		ug/L	164230	100	07/25/2012 16:04	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 11:30	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 11:30	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
cis-1,2-Dichloroethene	7900	500		ug/L	164230	100	07/25/2012 16:04	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 11:30	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-41C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 10:50:00 AM
Lab ID: 1207E25-028	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	164230	1	07/25/2012 11:30	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
trans-1,2-Dichloroethene	88	5.0		ug/L	164230	1	07/25/2012 11:30	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Trichloroethene	9200	500		ug/L	164230	100	07/25/2012 16:04	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 11:30	NH
Vinyl chloride	310	200		ug/L	164230	100	07/25/2012 16:04	NH
Surr: 4-Bromofluorobenzene	92.2	67.4-123		%REC	164230	1	07/25/2012 11:30	NH
Surr: 4-Bromofluorobenzene	94.9	67.4-123		%REC	164230	100	07/25/2012 16:04	NH
Surr: Dibromofluoromethane	111	75.5-128		%REC	164230	1	07/25/2012 11:30	NH
Surr: Dibromofluoromethane	113	75.5-128		%REC	164230	100	07/25/2012 16:04	NH
Surr: Toluene-d8	93.2	70-120		%REC	164230	100	07/25/2012 16:04	NH
Surr: Toluene-d8	97.1	70-120		%REC	164230	1	07/25/2012 11:30	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-9B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 11:05:00 AM
Lab ID: 1207E25-029	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	164230	1	07/25/2012 17:39	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 17:39	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 17:39	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
cis-1,2-Dichloroethene	190	5.0		ug/L	164230	1	07/25/2012 17:39	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 17:39	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-9B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 11:05:00 AM
Lab ID: 1207E25-029	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	164230	1	07/25/2012 17:39	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Trichloroethene	11	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:39	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 17:39	NH
Surr: 4-Bromofluorobenzene	92.4	67.4-123		%REC	164230	1	07/25/2012 17:39	NH
Surr: Dibromofluoromethane	120	75.5-128		%REC	164230	1	07/25/2012 17:39	NH
Surr: Toluene-d8	91.9	70-120		%REC	164230	1	07/25/2012 17:39	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-16A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 11:35:00 AM
Lab ID: 1207E25-030	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	37	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,1-Dichloroethene	25	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 12:28	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 12:28	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
cis-1,2-Dichloroethene	830	50		ug/L	164230	10	07/25/2012 16:33	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 12:28	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-16A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 11:35:00 AM
Lab ID: 1207E25-030	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	164230	1	07/25/2012 12:28	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
trans-1,2-Dichloroethene	11	5.0		ug/L	164230	1	07/25/2012 12:28	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Trichloroethene	480	50		ug/L	164230	10	07/25/2012 16:33	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 12:28	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 12:28	NH
Surr: 4-Bromofluorobenzene	87.6	67.4-123		%REC	164230	10	07/25/2012 16:33	NH
Surr: 4-Bromofluorobenzene	93.2	67.4-123		%REC	164230	1	07/25/2012 12:28	NH
Surr: Dibromofluoromethane	111	75.5-128		%REC	164230	1	07/25/2012 12:28	NH
Surr: Dibromofluoromethane	111	75.5-128		%REC	164230	10	07/25/2012 16:33	NH
Surr: Toluene-d8	89.7	70-120		%REC	164230	10	07/25/2012 16:33	NH
Surr: Toluene-d8	91.1	70-120		%REC	164230	1	07/25/2012 12:28	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-27A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 1:20:00 PM
Lab ID: 1207E25-031	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	164230	1	07/25/2012 17:10	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
2-Butanone	BRL	50		ug/L	164230	1	07/25/2012 17:10	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
Acetone	BRL	50		ug/L	164230	1	07/25/2012 17:10	NH
Benzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Chloroethane	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Chloromethane	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Freon-113	BRL	10		ug/L	164230	1	07/25/2012 17:10	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-27A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 1:20:00 PM
Lab ID: 1207E25-031	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	164230	1	07/25/2012 17:10	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Toluene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Trichloroethene	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/25/2012 17:10	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/25/2012 17:10	NH
Surr: 4-Bromofluorobenzene	91.9	67.4-123		%REC	164230	1	07/25/2012 17:10	NH
Surr: Dibromofluoromethane	110	75.5-128		%REC	164230	1	07/25/2012 17:10	NH
Surr: Toluene-d8	92.4	70-120		%REC	164230	1	07/25/2012 17:10	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-26A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 1:23:00 PM
Lab ID: 1207E25-032	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	164230	1	07/24/2012 20:38	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
2-Butanone	BRL	50		ug/L	164230	1	07/24/2012 20:38	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
Acetone	BRL	50		ug/L	164230	1	07/24/2012 20:38	NH
Benzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Chloroethane	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Chloromethane	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
cis-1,2-Dichloroethene	73	5.0		ug/L	164230	1	07/24/2012 20:38	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Freon-113	BRL	10		ug/L	164230	1	07/24/2012 20:38	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-26A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 1:23:00 PM
Lab ID: 1207E25-032	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	164230	1	07/24/2012 20:38	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Toluene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Trichloroethene	18	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/24/2012 20:38	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/24/2012 20:38	NH
Surr: 4-Bromofluorobenzene	92.2	67.4-123		%REC	164230	1	07/24/2012 20:38	NH
Surr: Dibromofluoromethane	108	75.5-128		%REC	164230	1	07/24/2012 20:38	NH
Surr: Toluene-d8	92	70-120		%REC	164230	1	07/24/2012 20:38	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-6A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 2:20:00 PM
Lab ID: 1207E25-033	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	49	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,1,2-Trichloroethane	11	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,1-Dichloroethane	110	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,1-Dichloroethene	440	200		ug/L	164230	100	07/25/2012 10:03	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,2-Dichloroethane	5.2	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
2-Butanone	BRL	50		ug/L	164230	1	07/24/2012 21:07	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
Acetone	BRL	50		ug/L	164230	1	07/24/2012 21:07	NH
Benzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Chloroethane	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Chloromethane	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
cis-1,2-Dichloroethene	11000	500		ug/L	164230	100	07/25/2012 10:03	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Freon-113	BRL	10		ug/L	164230	1	07/24/2012 21:07	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-6A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 2:20:00 PM
Lab ID: 1207E25-033	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	164230	1	07/24/2012 21:07	NH
Tetrachloroethene	7.3	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Toluene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
trans-1,2-Dichloroethene	160	5.0		ug/L	164230	1	07/24/2012 21:07	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Trichloroethene	9100	500		ug/L	164230	100	07/25/2012 10:03	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/24/2012 21:07	NH
Vinyl chloride	93	2.0		ug/L	164230	1	07/24/2012 21:07	NH
Surr: 4-Bromofluorobenzene	90.2	67.4-123		%REC	164230	1	07/24/2012 21:07	NH
Surr: 4-Bromofluorobenzene	93	67.4-123		%REC	164230	100	07/25/2012 10:03	NH
Surr: Dibromofluoromethane	110	75.5-128		%REC	164230	100	07/25/2012 10:03	NH
Surr: Dibromofluoromethane	111	75.5-128		%REC	164230	1	07/24/2012 21:07	NH
Surr: Toluene-d8	92.7	70-120		%REC	164230	100	07/25/2012 10:03	NH
Surr: Toluene-d8	95.3	70-120		%REC	164230	1	07/24/2012 21:07	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-13C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 3:10:00 PM
Lab ID: 1207E25-034	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	164230	1	07/23/2012 19:37	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 19:37	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 19:37	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
cis-1,2-Dichloroethene	21	5.0		ug/L	164230	1	07/23/2012 19:37	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 19:37	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-13C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 3:10:00 PM
Lab ID: 1207E25-034	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	164230	1	07/23/2012 19:37	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Trichloroethene	18	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:37	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 19:37	NH
Surr: 4-Bromofluorobenzene	95.5	67.4-123		%REC	164230	1	07/23/2012 19:37	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	1	07/23/2012 19:37	NH
Surr: Toluene-d8	90	70-120		%REC	164230	1	07/23/2012 19:37	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-28A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 3:45:00 PM
Lab ID: 1207E25-035	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	23	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,1-Dichloroethene	17	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 20:06	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 20:06	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
cis-1,2-Dichloroethene	210	50		ug/L	164230	10	07/24/2012 13:54	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 20:06	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-28A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 3:45:00 PM
Lab ID: 1207E25-035	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	164230	1	07/23/2012 20:06	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Trichloroethene	420	50		ug/L	164230	10	07/24/2012 13:54	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:06	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 20:06	NH
Surr: 4-Bromofluorobenzene	89	67.4-123		%REC	164230	10	07/24/2012 13:54	NH
Surr: 4-Bromofluorobenzene	92.3	67.4-123		%REC	164230	1	07/23/2012 20:06	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	10	07/24/2012 13:54	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	1	07/23/2012 20:06	NH
Surr: Toluene-d8	90.2	70-120		%REC	164230	1	07/23/2012 20:06	NH
Surr: Toluene-d8	93.6	70-120		%REC	164230	10	07/24/2012 13:54	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-12C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 4:25:00 PM
Lab ID: 1207E25-036	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	164230	1	07/23/2012 20:35	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 20:35	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 20:35	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
cis-1,2-Dichloroethene	80	5.0		ug/L	164230	1	07/23/2012 20:35	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 20:35	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-12C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 4:25:00 PM
Lab ID: 1207E25-036	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	164230	1	07/23/2012 20:35	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Trichloroethene	95	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 20:35	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 20:35	NH
Surr: 4-Bromofluorobenzene	91.9	67.4-123		%REC	164230	1	07/23/2012 20:35	NH
Surr: Dibromofluoromethane	113	75.5-128		%REC	164230	1	07/23/2012 20:35	NH
Surr: Toluene-d8	93.5	70-120		%REC	164230	1	07/23/2012 20:35	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-8B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 5:05:00 PM
Lab ID: 1207E25-037	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	33	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,1-Dichloroethene	18	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 21:04	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 21:04	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
cis-1,2-Dichloroethene	480	50		ug/L	164230	10	07/24/2012 14:52	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 21:04	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-8B
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 5:05:00 PM
Lab ID: 1207E25-037	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	164230	1	07/23/2012 21:04	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
trans-1,2-Dichloroethene	7.0	5.0		ug/L	164230	1	07/23/2012 21:04	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Trichloroethene	360	50		ug/L	164230	10	07/24/2012 14:52	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:04	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 21:04	NH
Surr: 4-Bromofluorobenzene	95.1	67.4-123		%REC	164230	1	07/23/2012 21:04	NH
Surr: 4-Bromofluorobenzene	96.8	67.4-123		%REC	164230	10	07/24/2012 14:52	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	10	07/24/2012 14:52	NH
Surr: Dibromofluoromethane	113	75.5-128		%REC	164230	1	07/23/2012 21:04	NH
Surr: Toluene-d8	93.6	70-120		%REC	164230	1	07/23/2012 21:04	NH
Surr: Toluene-d8	92.4	70-120		%REC	164230	10	07/24/2012 14:52	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-29A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 5:50:00 PM
Lab ID: 1207E25-038	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	300	50		ug/L	164230	10	07/24/2012 17:45	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,1,2-Trichloroethane	6.0	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,1-Dichloroethane	74	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,1-Dichloroethene	270	50		ug/L	164230	10	07/24/2012 17:45	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 21:33	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 21:33	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
cis-1,2-Dichloroethene	13000	2500		ug/L	164230	500	07/24/2012 15:20	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 21:33	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-29A
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 5:50:00 PM
Lab ID: 1207E25-038	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	164230	1	07/23/2012 21:33	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
trans-1,2-Dichloroethene	210	50		ug/L	164230	10	07/24/2012 17:45	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Trichloroethene	8000	2500		ug/L	164230	500	07/24/2012 15:20	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 21:33	NH
Vinyl chloride	2.7	2.0		ug/L	164230	1	07/23/2012 21:33	NH
Surr: 4-Bromofluorobenzene	93	67.4-123		%REC	164230	500	07/24/2012 15:20	NH
Surr: 4-Bromofluorobenzene	91.1	67.4-123		%REC	164230	1	07/23/2012 21:33	NH
Surr: 4-Bromofluorobenzene	95.7	67.4-123		%REC	164230	10	07/24/2012 17:45	NH
Surr: Dibromofluoromethane	108	75.5-128		%REC	164230	500	07/24/2012 15:20	NH
Surr: Dibromofluoromethane	110	75.5-128		%REC	164230	1	07/23/2012 21:33	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	10	07/24/2012 17:45	NH
Surr: Toluene-d8	91.1	70-120		%REC	164230	500	07/24/2012 15:20	NH
Surr: Toluene-d8	89.5	70-120		%REC	164230	10	07/24/2012 17:45	NH
Surr: Toluene-d8	93.6	70-120		%REC	164230	1	07/23/2012 21:33	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-7C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 6:25:00 PM
Lab ID: 1207E25-039	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	200	50		ug/L	164230	10	07/24/2012 18:14	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,1,2-Trichloroethane	24	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,1-Dichloroethane	510	50		ug/L	164230	10	07/24/2012 18:14	NH
1,1-Dichloroethene	1400	50		ug/L	164230	10	07/24/2012 18:14	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,2-Dichloroethane	17	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 22:02	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 22:02	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
cis-1,2-Dichloroethene	63000	2500		ug/L	164230	500	07/24/2012 15:50	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 22:02	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-7C
Project Name: Former Manchester Tank	Collection Date: 7/18/2012 6:25:00 PM
Lab ID: 1207E25-039	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	164230	1	07/23/2012 22:02	NH
Tetrachloroethene	6.8	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Toluene	7.7	5.0		ug/L	164230	1	07/23/2012 22:02	NH
trans-1,2-Dichloroethene	600	50		ug/L	164230	10	07/24/2012 18:14	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Trichloroethene	70000	2500		ug/L	164230	500	07/24/2012 15:50	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:02	NH
Vinyl chloride	50	2.0		ug/L	164230	1	07/23/2012 22:02	NH
Surr: 4-Bromofluorobenzene	94.1	67.4-123		%REC	164230	500	07/24/2012 15:50	NH
Surr: 4-Bromofluorobenzene	89.5	67.4-123		%REC	164230	10	07/24/2012 18:14	NH
Surr: 4-Bromofluorobenzene	93.1	67.4-123		%REC	164230	1	07/23/2012 22:02	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	500	07/24/2012 15:50	NH
Surr: Dibromofluoromethane	101	75.5-128		%REC	164230	1	07/23/2012 22:02	NH
Surr: Dibromofluoromethane	113	75.5-128		%REC	164230	10	07/24/2012 18:14	NH
Surr: Toluene-d8	89.7	70-120		%REC	164230	500	07/24/2012 15:50	NH
Surr: Toluene-d8	95.1	70-120		%REC	164230	10	07/24/2012 18:14	NH
Surr: Toluene-d8	97.3	70-120		%REC	164230	1	07/23/2012 22:02	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW #3
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 8:40:00 AM
Lab ID: 1207E25-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B								
					(SW1311)			
1,1-Dichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
1,2-Dichloroethane	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
2-Butanone	BRL	0.20		mg/L	164250	20	07/25/2012 15:07	NP
Benzene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Carbon tetrachloride	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Chlorobenzene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Chloroform	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Tetrachloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Trichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NP
Vinyl chloride	BRL	0.040		mg/L	164250	20	07/25/2012 15:07	NP
Surr: 4-Bromofluorobenzene	82.2	64.6-131		%REC	164250	20	07/25/2012 15:07	NP
Surr: Dibromofluoromethane	109	70.6-128		%REC	164250	20	07/25/2012 15:07	NP
Surr: Toluene-d8	93	70.5-116		%REC	164250	20	07/25/2012 15:07	NP

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW #4
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 8:45:00 AM
Lab ID: 1207E25-043	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	164210	1	07/24/2012 16:45	LD
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	164236	1	07/25/2012 12:52	MR
Barium	0.856	0.500		mg/L	164236	1	07/25/2012 12:52	MR
Cadmium	BRL	0.0250		mg/L	164236	1	07/25/2012 12:52	MR
Chromium	BRL	0.0500		mg/L	164236	1	07/25/2012 12:52	MR
Lead	BRL	0.0500		mg/L	164236	1	07/25/2012 12:52	MR
Selenium	BRL	0.100		mg/L	164236	1	07/25/2012 12:52	MR
Silver	BRL	0.0250		mg/L	164236	1	07/25/2012 12:52	MR

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: IDW #5
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 8:50:00 AM
Lab ID: 1207E25-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B								
					(SW1311)			
1,1-Dichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
1,2-Dichloroethane	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
2-Butanone	BRL	0.20		mg/L	164250	20	07/25/2012 17:02	NP
Benzene	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Carbon tetrachloride	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Chlorobenzene	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Chloroform	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Tetrachloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Trichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 17:02	NP
Vinyl chloride	BRL	0.040		mg/L	164250	20	07/25/2012 17:02	NP
Surr: 4-Bromofluorobenzene	79.2	64.6-131		%REC	164250	20	07/25/2012 17:02	NP
Surr: Dibromofluoromethane	112	70.6-128		%REC	164250	20	07/25/2012 17:02	NP
Surr: Toluene-d8	82.8	70.5-116		%REC	164250	20	07/25/2012 17:02	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW #6
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 8:55:00 AM
Lab ID: 1207E25-045	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	164210	1	07/24/2012 16:47	LD
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	164236	1	07/25/2012 12:56	MR
Barium	0.636	0.500		mg/L	164236	1	07/25/2012 12:56	MR
Cadmium	BRL	0.0250		mg/L	164236	1	07/25/2012 12:56	MR
Chromium	BRL	0.0500		mg/L	164236	1	07/25/2012 12:56	MR
Lead	BRL	0.0500		mg/L	164236	1	07/25/2012 12:56	MR
Selenium	BRL	0.100		mg/L	164236	1	07/25/2012 12:56	MR
Silver	BRL	0.0250		mg/L	164236	1	07/25/2012 12:56	MR

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW- #7
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 9:00:00 AM
Lab ID: 1207E25-046	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	164210	1	07/24/2012 16:49	LD
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	164236	1	07/25/2012 13:06	MR
Barium	0.615	0.500		mg/L	164236	1	07/25/2012 13:06	MR
Cadmium	BRL	0.0250		mg/L	164236	1	07/25/2012 13:06	MR
Chromium	BRL	0.0500		mg/L	164236	1	07/25/2012 13:06	MR
Lead	BRL	0.0500		mg/L	164236	1	07/25/2012 13:06	MR
Selenium	BRL	0.100		mg/L	164236	1	07/25/2012 13:06	MR
Silver	BRL	0.0250		mg/L	164236	1	07/25/2012 13:06	MR

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW- #8
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 9:05:00 AM
Lab ID: 1207E25-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	164210	1	07/24/2012 16:51	LD
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	164236	1	07/25/2012 13:09	MR
Barium	0.919	0.500		mg/L	164236	1	07/25/2012 13:09	MR
Cadmium	BRL	0.0250		mg/L	164236	1	07/25/2012 13:09	MR
Chromium	BRL	0.0500		mg/L	164236	1	07/25/2012 13:09	MR
Lead	BRL	0.0500		mg/L	164236	1	07/25/2012 13:09	MR
Selenium	BRL	0.100		mg/L	164236	1	07/25/2012 13:09	MR
Silver	BRL	0.0250		mg/L	164236	1	07/25/2012 13:09	MR

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW- #9
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 9:10:00 AM
Lab ID: 1207E25-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
MERCURY, TCLP SW1311/7470A					(SW7470A)			
Mercury	BRL	0.00400		mg/L	164210	1	07/24/2012 16:53	LD
ICP METALS, TCLP SW1311/6010C					(SW3010A)			
Arsenic	BRL	0.250		mg/L	164236	1	07/25/2012 13:13	MR
Barium	BRL	0.500		mg/L	164236	1	07/25/2012 13:13	MR
Cadmium	BRL	0.0250		mg/L	164236	1	07/25/2012 13:13	MR
Chromium	BRL	0.0500		mg/L	164236	1	07/25/2012 13:13	MR
Lead	BRL	0.0500		mg/L	164236	1	07/25/2012 13:13	MR
Selenium	BRL	0.100		mg/L	164236	1	07/25/2012 13:13	MR
Silver	BRL	0.0250		mg/L	164236	1	07/25/2012 13:13	MR

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-21C
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:05:00 AM
Lab ID: 1207E25-050	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	98	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,1,2-Trichloroethane	12	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,1-Dichloroethane	340	50		ug/L	164230	10	07/24/2012 18:43	NH
1,1-Dichloroethene	1000	50		ug/L	164230	10	07/24/2012 18:43	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,2-Dichloroethane	9.3	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 22:59	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 22:59	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
cis-1,2-Dichloroethene	29000	5000		ug/L	164230	1000	07/24/2012 16:19	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 22:59	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-21C
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:05:00 AM
Lab ID: 1207E25-050	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	164230	1	07/23/2012 22:59	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Toluene	22	5.0		ug/L	164230	1	07/23/2012 22:59	NH
trans-1,2-Dichloroethene	270	50		ug/L	164230	10	07/24/2012 18:43	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Trichloroethene	88000	5000		ug/L	164230	1000	07/24/2012 16:19	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:59	NH
Vinyl chloride	62	2.0		ug/L	164230	1	07/23/2012 22:59	NH
Surr: 4-Bromofluorobenzene	91.4	67.4-123		%REC	164230	1000	07/24/2012 16:19	NH
Surr: 4-Bromofluorobenzene	93	67.4-123		%REC	164230	1	07/23/2012 22:59	NH
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	164230	10	07/24/2012 18:43	NH
Surr: Dibromofluoromethane	99.9	75.5-128		%REC	164230	1	07/23/2012 22:59	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	10	07/24/2012 18:43	NH
Surr: Dibromofluoromethane	110	75.5-128		%REC	164230	1000	07/24/2012 16:19	NH
Surr: Toluene-d8	90.5	70-120		%REC	164230	1000	07/24/2012 16:19	NH
Surr: Toluene-d8	94.3	70-120		%REC	164230	10	07/24/2012 18:43	NH
Surr: Toluene-d8	97.7	70-120		%REC	164230	1	07/23/2012 22:59	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-24B
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:15:00 AM
Lab ID: 1207E25-051	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	1200	100		ug/L	164230	20	07/24/2012 17:16	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,1,2-Trichloroethane	81	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,1-Dichloroethane	520	100		ug/L	164230	20	07/24/2012 17:16	NH
1,1-Dichloroethene	2300	100		ug/L	164230	20	07/24/2012 17:16	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,2-Dichloroethane	35	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 22:31	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 22:31	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
cis-1,2-Dichloroethene	140000	5000		ug/L	164230	1000	07/24/2012 16:47	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 22:31	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
m,p-Xylene	6.3	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
o-Xylene	27	5.0		ug/L	164230	1	07/23/2012 22:31	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-24B
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:15:00 AM
Lab ID: 1207E25-051	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	164230	1	07/23/2012 22:31	NH
Tetrachloroethene	19	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Toluene	57	5.0		ug/L	164230	1	07/23/2012 22:31	NH
trans-1,2-Dichloroethene	2100	100		ug/L	164230	20	07/24/2012 17:16	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Trichloroethene	91000	5000		ug/L	164230	1000	07/24/2012 16:47	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 22:31	NH
Vinyl chloride	330	40		ug/L	164230	20	07/24/2012 17:16	NH
Surr: 4-Bromofluorobenzene	90.1	67.4-123		%REC	164230	1000	07/24/2012 16:47	NH
Surr: 4-Bromofluorobenzene	97.3	67.4-123		%REC	164230	1	07/23/2012 22:31	NH
Surr: 4-Bromofluorobenzene	95.8	67.4-123		%REC	164230	20	07/24/2012 17:16	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	20	07/24/2012 17:16	NH
Surr: Dibromofluoromethane	92.1	75.5-128		%REC	164230	1	07/23/2012 22:31	NH
Surr: Dibromofluoromethane	112	75.5-128		%REC	164230	1000	07/24/2012 16:47	NH
Surr: Toluene-d8	89.4	70-120		%REC	164230	1000	07/24/2012 16:47	NH
Surr: Toluene-d8	95	70-120		%REC	164230	1	07/23/2012 22:31	NH
Surr: Toluene-d8	94.2	70-120		%REC	164230	20	07/24/2012 17:16	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-22C
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:40:00 AM
Lab ID: 1207E25-052	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	20	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,1-Dichloroethane	16	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,1-Dichloroethene	14	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
2-Butanone	260	50		ug/L	164230	1	07/23/2012 23:28	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
Acetone	680	500		ug/L	164230	10	07/24/2012 14:23	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
cis-1,2-Dichloroethene	960	50		ug/L	164230	10	07/24/2012 14:23	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 23:28	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: MW-22C
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 11:40:00 AM
Lab ID: 1207E25-052	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	164230	1	07/23/2012 23:28	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
trans-1,2-Dichloroethene	5.7	5.0		ug/L	164230	1	07/23/2012 23:28	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Trichloroethene	1200	50		ug/L	164230	10	07/24/2012 14:23	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 23:28	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 23:28	NH
Surr: 4-Bromofluorobenzene	94.2	67.4-123		%REC	164230	10	07/24/2012 14:23	NH
Surr: 4-Bromofluorobenzene	98.9	67.4-123		%REC	164230	1	07/23/2012 23:28	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	1	07/23/2012 23:28	NH
Surr: Dibromofluoromethane	109	75.5-128		%REC	164230	10	07/24/2012 14:23	NH
Surr: Toluene-d8	92.3	70-120		%REC	164230	1	07/23/2012 23:28	NH
Surr: Toluene-d8	92.1	70-120		%REC	164230	10	07/24/2012 14:23	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW- #11
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 12:10:00 PM
Lab ID: 1207E25-053	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B								
					(SW1311)			
1,1-Dichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
1,2-Dichloroethane	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
2-Butanone	BRL	0.20		mg/L	164250	20	07/25/2012 15:07	NH
Benzene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
Carbon tetrachloride	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
Chlorobenzene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
Chloroform	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
Tetrachloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 15:07	NH
Trichloroethene	1.3	0.10	*	mg/L	164250	20	07/25/2012 15:07	NH
Vinyl chloride	BRL	0.040		mg/L	164250	20	07/25/2012 15:07	NH
Surr: 4-Bromofluorobenzene	93.6	64.6-131		%REC	164250	20	07/25/2012 15:07	NH
Surr: Dibromofluoromethane	108	70.6-128		%REC	164250	20	07/25/2012 15:07	NH
Surr: Toluene-d8	92.6	70.5-116		%REC	164250	20	07/25/2012 15:07	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW #12
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 12:15:00 PM
Lab ID: 1207E25-054	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B								
					(SW1311)			
1,1-Dichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
1,2-Dichloroethane	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
2-Butanone	BRL	0.20		mg/L	164250	20	07/25/2012 14:09	NH
Benzene	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
Carbon tetrachloride	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
Chlorobenzene	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
Chloroform	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
Tetrachloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 14:09	NH
Trichloroethene	0.76	0.10	*	mg/L	164250	20	07/25/2012 14:09	NH
Vinyl chloride	BRL	0.040		mg/L	164250	20	07/25/2012 14:09	NH
Surr: 4-Bromofluorobenzene	94.8	64.6-131		%REC	164250	20	07/25/2012 14:09	NH
Surr: Dibromofluoromethane	109	70.6-128		%REC	164250	20	07/25/2012 14:09	NH
Surr: Toluene-d8	89.9	70.5-116		%REC	164250	20	07/25/2012 14:09	NH

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: 28-Jul-12

Client: CDM Smith Inc.	Client Sample ID: IDW #13
Project Name: Former Manchester Tank	Collection Date: 7/19/2012 12:20:00 PM
Lab ID: 1207E25-055	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
VOLATILES, TCLP SW1311/8260B								
					(SW1311)			
1,1-Dichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
1,2-Dichloroethane	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
2-Butanone	BRL	0.20		mg/L	164250	20	07/25/2012 13:41	NH
Benzene	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Carbon tetrachloride	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Chlorobenzene	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Chloroform	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Tetrachloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Trichloroethene	BRL	0.10		mg/L	164250	20	07/25/2012 13:41	NH
Vinyl chloride	BRL	0.040		mg/L	164250	20	07/25/2012 13:41	NH
Surr: 4-Bromofluorobenzene	89.9	64.6-131		%REC	164250	20	07/25/2012 13:41	NH
Surr: Dibromofluoromethane	113	70.6-128		%REC	164250	20	07/25/2012 13:41	NH
Surr: Toluene-d8	90.3	70.5-116		%REC	164250	20	07/25/2012 13:41	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 7/19/2012
Lab ID: 1207E25-056	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	164230	1	07/23/2012 19:08	NH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,1,2-Trichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,1-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,1-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2-Dibromoethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2-Dichloroethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,2-Dichloropropane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,3-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
1,4-Dichlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
2-Butanone	BRL	50		ug/L	164230	1	07/23/2012 19:08	NH
2-Hexanone	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
4-Methyl-2-pentanone	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
Acetone	BRL	50		ug/L	164230	1	07/23/2012 19:08	NH
Benzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Bromodichloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Bromoform	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Bromomethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Carbon disulfide	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Carbon tetrachloride	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Chlorobenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Chloroethane	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
Chloroform	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Chloromethane	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Cyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Dibromochloromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Dichlorodifluoromethane	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
Ethylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Freon-113	BRL	10		ug/L	164230	1	07/23/2012 19:08	NH
Isopropylbenzene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
m,p-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Methyl acetate	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Methyl tert-butyl ether	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Methylcyclohexane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Methylene chloride	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
o-Xylene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 7/19/2012
Lab ID: 1207E25-056	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	164230	1	07/23/2012 19:08	NH
Tetrachloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Toluene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Trichloroethene	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Trichlorofluoromethane	BRL	5.0		ug/L	164230	1	07/23/2012 19:08	NH
Vinyl chloride	BRL	2.0		ug/L	164230	1	07/23/2012 19:08	NH
Surr: 4-Bromofluorobenzene	93.9	67.4-123		%REC	164230	1	07/23/2012 19:08	NH
Surr: Dibromofluoromethane	107	75.5-128		%REC	164230	1	07/23/2012 19:08	NH
Surr: Toluene-d8	91.4	70-120		%REC	164230	1	07/23/2012 19:08	NH

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM SMITH

Work Order Number 1207E25

Checklist completed by Jam JB Signature Date 7/20/12

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 3.3° Cooler #2 3.1° 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 JMS 7/20/12

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by JB

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
 Project: Former Manchester Tank
 Lab Order: 1207E25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207E25-001A	DUP-1	7/16/2012 8:00:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-002A	MW-20B	7/16/2012 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-003A	MW-18B	7/16/2012 1:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-003A	MW-18B	7/16/2012 1:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-004A	MW-19C	7/16/2012 2:15:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-005A	MW-11B	7/16/2012 2:55:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-006A	MW-10B	7/16/2012 3:40:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-007A	MW-36C	7/16/2012 4:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-008A	MW-5B	7/16/2012 4:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-009A	DUP-2	7/17/2012 8:00:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-010A	MW-30A	7/17/2012 9:25:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-011A	MW-38C	7/17/2012 10:10:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-012A	MW-1B	7/17/2012 11:00:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-013A	MW-35D	7/17/2012 1:30:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-014A	MW-33A	7/17/2012 1:35:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-015A	MW-37C	7/17/2012 2:35:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-016A	MW-32B	7/17/2012 2:56:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-017A	MW-31C	7/17/2012 3:30:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-018A	MW-4B	7/17/2012 3:56:00PM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/24/2012
1207E25-018A	MW-4B	7/17/2012 3:56:00PM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-019A	MW-34B	7/17/2012 4:30:00PM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-020A	MW-25A	7/17/2012 4:55:00PM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-021A	MW-40C	7/17/2012 5:15:00PM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-022A	MW-39C	7/18/2012 8:50:00AM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-023A	DUP-3	7/18/2012 8:00:00AM	Groundwater	TCL VOLATILE ORGANICS		07/24/2012	07/25/2012
1207E25-024A	DUP-4	7/18/2012 8:30:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-025A	MW-14C	7/18/2012 9:30:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-026A	MW-17C	7/18/2012 10:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-027A	MW-15B	7/18/2012 10:18:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012

Client: CDM Smith Inc.
 Project: Former Manchester Tank
 Lab Order: 1207E25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207E25-028A	MW-41C	7/18/2012 10:50:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-029A	MW-9B	7/18/2012 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-030A	MW-16A	7/18/2012 11:35:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-031A	MW-27A	7/18/2012 1:20:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-032A	MW-26A	7/18/2012 1:23:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-033A	MW-6A	7/18/2012 2:20:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-033A	MW-6A	7/18/2012 2:20:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/25/2012
1207E25-034A	MW-13C	7/18/2012 3:10:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-035A	MW-28A	7/18/2012 3:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-035A	MW-28A	7/18/2012 3:45:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-036A	MW-12C	7/18/2012 4:25:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-037A	MW-8B	7/18/2012 5:05:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-037A	MW-8B	7/18/2012 5:05:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-038A	MW-29A	7/18/2012 5:50:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-038A	MW-29A	7/18/2012 5:50:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-039A	MW-7C	7/18/2012 6:25:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-039A	MW-7C	7/18/2012 6:25:00PM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-040A	IDW #1	7/19/2012 8:30:00AM	Soil	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-041A	IDW #2	7/19/2012 8:35:00AM	Soil	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-042A	IDW #3	7/19/2012 8:40:00AM	Soil	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-043A	IDW #4	7/19/2012 8:45:00AM	Soil	MERCURY, TCLP Leached	07/23/2012	07/24/2012	07/24/2012
1207E25-043A	IDW #4	7/19/2012 8:45:00AM	Soil	ICP METALS, TCLP Leached	07/23/2012	07/24/2012	07/25/2012
1207E25-044A	IDW #5	7/19/2012 8:50:00AM	Soil	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-045A	IDW #6	7/19/2012 8:55:00AM	Soil	MERCURY, TCLP Leached	07/23/2012	07/24/2012	07/24/2012
1207E25-045A	IDW #6	7/19/2012 8:55:00AM	Soil	ICP METALS, TCLP Leached	07/23/2012	07/24/2012	07/25/2012
1207E25-046A	IDW- #7	7/19/2012 9:00:00AM	Soil	MERCURY, TCLP Leached	07/23/2012	07/24/2012	07/24/2012
1207E25-046A	IDW- #7	7/19/2012 9:00:00AM	Soil	ICP METALS, TCLP Leached	07/23/2012	07/24/2012	07/25/2012
1207E25-047A	IDW- #8	7/19/2012 9:05:00AM	Soil	MERCURY, TCLP Leached	07/23/2012	07/24/2012	07/24/2012
1207E25-047A	IDW- #8	7/19/2012 9:05:00AM	Soil	ICP METALS, TCLP Leached	07/23/2012	07/24/2012	07/25/2012

Client: CDM Smith Inc.
Project: Former Manchester Tank
Lab Order: 1207E25

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1207E25-048A	IDW- #9	7/19/2012 9:10:00AM	Soil	MERCURY, TCLP Leached	07/23/2012	07/24/2012	07/24/2012
1207E25-048A	IDW- #9	7/19/2012 9:10:00AM	Soil	ICP METALS, TCLP Leached	07/23/2012	07/24/2012	07/25/2012
1207E25-049A	IDW- #10	7/19/2012 9:15:00AM	Soil	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-050A	MW-21C	7/19/2012 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-050A	MW-21C	7/19/2012 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-051A	MW-24B	7/19/2012 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-051A	MW-24B	7/19/2012 11:15:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-052A	MW-22C	7/19/2012 11:40:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012
1207E25-052A	MW-22C	7/19/2012 11:40:00AM	Groundwater	TCL VOLATILE ORGANICS		07/23/2012	07/24/2012
1207E25-053A	IDW- #11	7/19/2012 12:10:00PM	Groundwater	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-054A	IDW #12	7/19/2012 12:15:00PM	Groundwater	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-055A	IDW #13	7/19/2012 12:20:00PM	Groundwater	VOLATILES, TCLP Leached	07/24/2012	07/24/2012	07/25/2012
1207E25-056A	TRIP BLANK	7/19/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		07/23/2012	07/23/2012

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank
 Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164183

Sample ID: MB-164183	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
Sample Type: MBLK	Test Code: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720880							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164183

Sample ID: MB-164183	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720880							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.49	0	50	0	85	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.49	0	50	0	99	75.5	128	0	0	0	
Surr: Toluene-d8	45.67	0	50	0	91.3	70	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164183

Sample ID: LCS-164183	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720678							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.85	5.0	50	0	124	60	140	0	0	0	
Benzene	55.00	5.0	50	0	110	70	130	0	0	0	
Chlorobenzene	48.18	5.0	50	0	96.4	70	130	0	0	0	
Toluene	56.13	5.0	50	0	112	70	130	0	0	0	
Trichloroethene	44.47	5.0	50	0	88.9	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	55.25	0	50	0	110	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.73	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	49.47	0	50	0	98.9	70	120	0	0	0	

Sample ID: 1207E45-001AMS	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720702							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	31220	2500	25000	0	125	50.1	179	0	0	0	
Benzene	28290	2500	25000	0	113	61.2	150	0	0	0	
Chlorobenzene	23760	2500	25000	0	95	72.1	140	0	0	0	
Toluene	27320	2500	25000	0	109	58.7	154	0	0	0	
Trichloroethene	22140	2500	25000	0	88.5	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	25840	0	25000	0	103	67.4	123	0	0	0	
Surr: Dibromofluoromethane	25240	0	25000	0	101	75.5	128	0	0	0	
Surr: Toluene-d8	24330	0	25000	0	97.3	70	120	0	0	0	

Sample ID: 1207E45-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720703							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	26400	2500	25000	0	106	50.1	179	31220	16.7	23.3	
Benzene	24790	2500	25000	0	99.1	61.2	150	28290	13.2	19	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164183

Sample ID: 1207E45-001AMSD	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225534							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164183	Analysis Date: 07/23/2012	Seq No: 4720703							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	21910	2500	25000	0	87.6	72.1	140	23760	8.1	21.5	
Toluene	23900	2500	25000	0	95.6	58.7	154	27320	13.3	20	
Trichloroethene	19820	2500	25000	0	79.3	68.3	149	22140	11.1	17.7	
Surr: 4-Bromofluorobenzene	26920	0	25000	0	108	67.4	123	25840	0	0	
Surr: Dibromofluoromethane	24590	0	25000	0	98.4	75.5	128	25240	0	0	
Surr: Toluene-d8	24260	0	25000	0	97	70	120	24330	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164210

Sample ID: MB-164210	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225680							
SampleType: MBLK	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 164210	Analysis Date: 07/24/2012	Seq No: 4723721							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00400 0 0 0 0 0 0 0 0 0

Sample ID: LCS-164210	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225680							
SampleType: LCS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 164210	Analysis Date: 07/24/2012	Seq No: 4723728							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03748 0.00400 0.04 0 93.7 80 120 0 0 0

Sample ID: 1207D51-001AMS	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225680							
SampleType: MS	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 164210	Analysis Date: 07/24/2012	Seq No: 4723750							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03887 0.00400 0.04 0 97.2 80 120 0 0 0

Sample ID: 1207D51-001AMSD	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225680							
SampleType: MSD	TestCode: MERCURY, TCLP SW1311/7470A	BatchID: 164210	Analysis Date: 07/24/2012	Seq No: 4723772							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.03872 0.00400 0.04 0 96.8 80 120 0.03887 0.374 20

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164230

Sample ID: MB-164230	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225626							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/23/2012	Seq No: 4722412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164230

Sample ID: MB-164230	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225626							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/23/2012	Seq No: 4722412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	47.15	0	50	0	94.3	67.4	123	0	0	0	
Surr: Dibromofluoromethane	50.80	0	50	0	102	75.5	128	0	0	0	
Surr: Toluene-d8	45.46	0	50	0	90.9	70	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164230

Sample ID: LCS-164230	Client ID:	Units: ug/L	Prep Date: 07/23/2012	Run No: 225704							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/24/2012	Seq No: 4724456							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.27	5.0	50	0	94.5	60	140	0	0	0	
Benzene	42.47	5.0	50	0	84.9	70	130	0	0	0	
Chlorobenzene	44.05	5.0	50	0	88.1	70	130	0	0	0	
Toluene	42.67	5.0	50	0	85.3	70	130	0	0	0	
Trichloroethene	54.53	5.0	50	0	109	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	58.07	0	50	0	116	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.75	0	50	0	110	75.5	128	0	0	0	
Surr: Toluene-d8	49.29	0	50	0	98.6	70	120	0	0	0	

Sample ID: 1207E25-034AMS	Client ID: MW-13C	Units: ug/L	Prep Date: 07/23/2012	Run No: 225626							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/24/2012	Seq No: 4722459							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.99	5.0	50	0	122	50.1	179	0	0	0	
Benzene	49.32	5.0	50	0	98.6	61.2	150	0	0	0	
Chlorobenzene	48.54	5.0	50	0	97.1	72.1	140	0	0	0	
Toluene	50.08	5.0	50	0	100	58.7	154	0	0	0	
Trichloroethene	97.10	5.0	50	18.19	158	68.3	149	0	0	0	S
Surr: 4-Bromofluorobenzene	55.91	0	50	0	112	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.12	0	50	0	108	75.5	128	0	0	0	
Surr: Toluene-d8	48.49	0	50	0	97	70	120	0	0	0	

Sample ID: 1207E25-034AMSD	Client ID: MW-13C	Units: ug/L	Prep Date: 07/23/2012	Run No: 225626							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/24/2012	Seq No: 4722461							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	57.07	5.0	50	0	114	50.1	179	60.99	6.64	23.3	
Benzene	47.74	5.0	50	0	95.5	61.2	150	49.32	3.26	19	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164230

Sample ID: 1207E25-034AMSD	Client ID: MW-13C	Units: ug/L	Prep Date: 07/23/2012	Run No: 225626
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164230	Analysis Date: 07/24/2012	Seq No: 4722461

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	46.79	5.0	50	0	93.6	72.1	140	48.54	3.67	21.5	
Toluene	48.27	5.0	50	0	96.5	58.7	154	50.08	3.68	20	
Trichloroethene	84.16	5.0	50	18.19	132	68.3	149	97.10	14.3	17.7	
Surr: 4-Bromofluorobenzene	55.68	0	50	0	111	67.4	123	55.91	0	0	
Surr: Dibromofluoromethane	52.84	0	50	0	106	75.5	128	54.12	0	0	
Surr: Toluene-d8	47.79	0	50	0	95.6	70	120	48.49	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164236

Sample ID: MB-164236	Client ID:	Units: mg/L	Prep Date: 07/25/2012	Run No: 225712							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724554							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	0	
Barium	BRL	0.500	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.100	0	0	0	0	0	0	0	0	
Silver	BRL	0.0250	0	0	0	0	0	0	0	0	

Sample ID: MB-164236-2	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225712							
SampleType: MBLK	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724555							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	0	
Barium	BRL	0.500	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.100	0	0	0	0	0	0	0	0	
Silver	BRL	0.0250	0	0	0	0	0	0	0	0	

Sample ID: LCS-164236	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225712							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.518	0.250	5	0	110	85	115	0	0	0	
Barium	5.207	0.500	5	0	104	80	120	0	0	0	
Cadmium	5.344	0.0250	5	0	107	85	115	0	0	0	
Chromium	5.709	0.0500	5	0	114	85	115	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164236

Sample ID: LCS-164236	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225712							
SampleType: LCS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724553							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead	5.353	0.0500	5	0	107	85	115	0	0	0	
Selenium	5.731	0.100	5	0	115	85	115	0	0	0	
Silver	0.5247	0.0250	0.5	0	105	85	115	0	0	0	

Sample ID: 1207F48-001AMS	Client ID:	Units: mg/L	Prep Date: 07/25/2012	Run No: 225712							
SampleType: MS	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.531	0.250	5	0	111	50	150	0	0	0	
Barium	5.079	0.500	5	0.06315	100	50	150	0	0	0	
Cadmium	5.311	0.0250	5	0	106	50	150	0	0	0	
Chromium	5.496	0.0500	5	0	110	50	150	0	0	0	
Lead	5.121	0.0500	5	0	102	50	150	0	0	0	
Selenium	5.751	0.100	5	0	115	50	150	0	0	0	
Silver	0.5159	0.0250	0.5	0	103	50	150	0	0	0	

Sample ID: 1207F48-001AMSD	Client ID:	Units: mg/L	Prep Date: 07/25/2012	Run No: 225712							
SampleType: MSD	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724560							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	5.484	0.250	5	0	110	50	150	5.531	0.851	30	
Barium	5.006	0.500	5	0.06315	98.8	50	150	5.079	1.46	30	
Cadmium	5.247	0.0250	5	0	105	50	150	5.311	1.22	30	
Chromium	5.442	0.0500	5	0	109	50	150	5.496	0.986	30	
Lead	5.060	0.0500	5	0	101	50	150	5.121	1.19	30	
Selenium	5.690	0.100	5	0	114	50	150	5.751	1.07	30	
Silver	0.5091	0.0250	0.5	0	102	50	150	0.5159	1.33	30	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164236

Sample ID: 1207E25-048ADUP	Client ID: IDW- #9	Units: mg/L	Prep Date: 07/24/2012	Run No: 225712							
SampleType: DUP	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724813							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	30	
Barium	BRL	0.500	0	0	0	0	0	0.3071	0	30	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	30	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	30	
Lead	BRL	0.0500	0	0	0	0	0	0	0	30	
Selenium	BRL	0.100	0	0	0	0	0	0	0	30	
Silver	BRL	0.0250	0	0	0	0	0	0	0	30	

Sample ID: 1207F48-001ADUP	Client ID:	Units: mg/L	Prep Date: 07/25/2012	Run No: 225712							
SampleType: DUP	TestCode: ICP METALS, TCLP SW1311/6010C	BatchID: 164236	Analysis Date: 07/25/2012	Seq No: 4724569							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	30	
Barium	BRL	0.500	0	0	0	0	0	0.06315	0	30	
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	30	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	30	
Lead	BRL	0.0500	0	0	0	0	0	0	0	30	
Selenium	BRL	0.100	0	0	0	0	0	0	0	30	
Silver	BRL	0.0250	0	0	0	0	0	0	0	30	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164240

Sample ID: MB-164240	Client ID:	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4724000

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164240

Sample ID: MB-164240	Client ID:	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4724000							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	43.07	0	50	0	86.1	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.77	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	44.54	0	50	0	89.1	70	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164240

Sample ID: LCS-164240	Client ID:	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4723985							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.63	5.0	50	0	121	60	140	0	0	0	
Benzene	58.26	5.0	50	0	117	70	130	0	0	0	
Chlorobenzene	49.99	5.0	50	0	100	70	130	0	0	0	
Toluene	55.55	5.0	50	0	111	70	130	0	0	0	
Trichloroethene	47.04	5.0	50	0	94.1	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	54.36	0	50	0	109	67.4	123	0	0	0	
Surr: Dibromofluoromethane	55.40	0	50	0	111	75.5	128	0	0	0	
Surr: Toluene-d8	48.80	0	50	0	97.6	70	120	0	0	0	

Sample ID: 1207E25-018AMS	Client ID: MW-4B	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4723989							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	669.1	50	500	17.20	130	50.1	179	0	0	0	
Benzene	597.4	50	500	0	119	61.2	150	0	0	0	
Chlorobenzene	513.9	50	500	0	103	72.1	140	0	0	0	
Toluene	569.2	50	500	0	114	58.7	154	0	0	0	
Trichloroethene	825.8	50	500	320.2	101	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	556.2	0	500	0	111	67.4	123	0	0	0	
Surr: Dibromofluoromethane	538.3	0	500	0	108	75.5	128	0	0	0	
Surr: Toluene-d8	511.9	0	500	0	102	70	120	0	0	0	

Sample ID: 1207E25-018AMSD	Client ID: MW-4B	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4723993							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	703.7	50	500	17.20	137	50.1	179	669.1	5.04	23.3	
Benzene	588.9	50	500	0	118	61.2	150	597.4	1.43	19	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164240

Sample ID: 1207E25-018AMSD	Client ID: MW-4B	Units: ug/L	Prep Date: 07/24/2012	Run No: 225686
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 164240	Analysis Date: 07/24/2012	Seq No: 4723993

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	512.6	50	500	0	103	72.1	140	513.9	0.253	21.5	
Toluene	553.3	50	500	0	111	58.7	154	569.2	2.83	20	
Trichloroethene	831.3	50	500	320.2	102	68.3	149	825.8	0.664	17.7	
Surr: 4-Bromofluorobenzene	540.9	0	500	0	108	67.4	123	556.2	0	0	
Surr: Dibromofluoromethane	521.4	0	500	0	104	75.5	128	538.3	0	0	
Surr: Toluene-d8	487.0	0	500	0	97.4	70	120	511.9	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164250

Sample ID: MB-164250	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723401							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	0	
Benzene	BRL	0.10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.9620	0	1	0	96.2	64.6	131	0	0	0	
Surr: Dibromofluoromethane	0.9272	0	1	0	92.7	70.6	128	0	0	0	
Surr: Toluene-d8	0.9602	0	1	0	96	70.5	116	0	0	0	

Sample ID: LCS-164250	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723402							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.100	0.10	1	0	110	51.3	142	0	0	0	
1,2-Dichloroethane	1.103	0.10	1	0	110	65.3	132	0	0	0	
2-Butanone	2.247	0.20	2	0	112	46.4	147	0	0	0	
Benzene	1.134	0.10	1	0	113	70.2	125	0	0	0	
Carbon tetrachloride	0.9824	0.10	1	0	98.2	53.1	148	0	0	0	
Chlorobenzene	1.131	0.10	1	0	113	73.5	121	0	0	0	
Chloroform	1.019	0.10	1	0	102	66.6	121	0	0	0	
Tetrachloroethene	1.185	0.10	1	0	119	65.3	137	0	0	0	
Trichloroethene	1.132	0.10	1	0	113	63.6	129	0	0	0	
Vinyl chloride	0.9670	0.040	1	0	96.7	47.6	145	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164250

Sample ID: LCS-164250	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723402							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	0.9884	0	1	0	98.8	64.6	131	0	0	0	
Surr: Dibromofluoromethane	0.9846	0	1	0	98.5	70.6	128	0	0	0	
Surr: Toluene-d8	1.021	0	1	0	102	70.5	116	0	0	0	

Sample ID: 1207E35-002AMS	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723414							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	5.792	0.50	5	0	116	46.9	155	0	0	0	
1,2-Dichloroethane	5.890	0.50	5	0	118	57.1	136	0	0	0	
2-Butanone	16.94	1.0	10	0	169	36.2	167	0	0	0	S
Benzene	5.906	0.50	5	0	118	65.5	134	0	0	0	
Carbon tetrachloride	4.849	0.50	5	0	97	51.3	151	0	0	0	
Chlorobenzene	5.880	0.50	5	0	118	73	124	0	0	0	
Chloroform	5.642	0.50	5	0.1800	109	61.3	128	0	0	0	
Tetrachloroethene	6.128	0.50	5	0	123	62.3	146	0	0	0	
Trichloroethene	9.916	0.50	5	0	198	66.2	140	0	0	0	S
Vinyl chloride	5.635	0.20	5	0	113	35.3	161	0	0	0	
Surr: 4-Bromofluorobenzene	5.202	0	5	0	104	64.6	131	0	0	0	
Surr: Dibromofluoromethane	4.932	0	5	0	98.6	70.6	128	0	0	0	
Surr: Toluene-d8	5.083	0	5	0	102	70.5	116	0	0	0	

Sample ID: 1207E35-002ADUP	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.50	0	0	0	0	0	0	0	30	
1,2-Dichloroethane	BRL	0.50	0	0	0	0	0	0	0	30	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1207E25

ANALYTICAL QC SUMMARY REPORT

BatchID: 164250

Sample ID: 1207E35-002ADUP	Client ID:	Units: mg/L	Prep Date: 07/24/2012	Run No: 225618							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 164250	Analysis Date: 07/24/2012	Seq No: 4723412							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	1.0	0	0	0	0	0	0	0	30	
Benzene	BRL	0.50	0	0	0	0	0	0	0	30	
Carbon tetrachloride	BRL	0.50	0	0	0	0	0	0	0	30	
Chlorobenzene	BRL	0.50	0	0	0	0	0	0	0	30	
Chloroform	BRL	0.50	0	0	0	0	0	0.1800	0	30	
Tetrachloroethene	BRL	0.50	0	0	0	0	0	0	0	30	
Trichloroethene	BRL	0.50	0	0	0	0	0	0	0	30	
Vinyl chloride	BRL	0.20	0	0	0	0	0	0	0	30	
Surr: 4-Bromofluorobenzene	5.060	0	5	0	101	64.6	131	5.089	0	0	
Surr: Dibromofluoromethane	4.706	0	5	0	94.1	70.6	128	4.714	0	0	
Surr: Toluene-d8	4.818	0	5	0	96.4	70.5	116	4.840	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.

October 10, 2012

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank

Dear Andrew Romanek:

Order No: 1210289

Analytical Environmental Services, Inc. received 3 samples on 10/3/2012 4:25:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1210289

Date: 10/2/12 Page 1 of 1

COMPANY:		ADDRESS:		ANALYSIS REQUESTED		REMARKS	No # of Containers
CDM Smith		3715 Northside Parkway					
PHONE: (404) 720-1400		300 S. 400				PRESERVATION (See codes)	
SAMPLED BY: Nick Fuller		Atlanta, GA 30327					
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS
1	GP-2A	10/2/12	1650	X		GW	X
2	GP-10A	10/3/12	1300	X		GW	X
3	TRIP Blank			X		W	X
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							

RELINQUISHED BY: <i>Di 2</i>	DATE/TIME: 10/3/12 1625	RECEIVED BY: <i>John B</i>	DATE/TIME: 10/3/12 16.25
PROJECT NAME: Former Manchester Tank		PROJECT #:	
SITE ADDRESS: Cedar-town, GA		SEND REPORT TO: Andrew Romanek	
INVOICE TO: Romanek APECONS.MTH.COM		QUOTE #:	
SHIPMENT METHOD: VIA: COURIER		SHIPMENT METHOD: VIA: COURIER	
SPECIAL INSTRUCTIONS/COMMENTS:		SPECIAL INSTRUCTIONS/COMMENTS:	

RECEIVED BY: <i>Di 2</i>	DATE/TIME: 10/3/12 1625	RECEIVED BY: <i>John B</i>	DATE/TIME: 10/3/12 16.25
PROJECT NAME: Former Manchester Tank		PROJECT #:	
SITE ADDRESS: Cedar-town, GA		SEND REPORT TO: Andrew Romanek	
INVOICE TO: Romanek APECONS.MTH.COM		QUOTE #:	
SHIPMENT METHOD: VIA: COURIER		SHIPMENT METHOD: VIA: COURIER	
SPECIAL INSTRUCTIONS/COMMENTS:		SPECIAL INSTRUCTIONS/COMMENTS:	

RELINQUISHED BY: <i>Di 2</i>	DATE/TIME: 10/3/12 1625	RECEIVED BY: <i>John B</i>	DATE/TIME: 10/3/12 16.25
PROJECT NAME: Former Manchester Tank		PROJECT #:	
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INVOICE TO: Romanek APECONS.MTH.COM		QUOTE #:	
SHIPMENT METHOD: VIA: COURIER		SHIPMENT METHOD: VIA: COURIER	
SPECIAL INSTRUCTIONS/COMMENTS:		SPECIAL INSTRUCTIONS/COMMENTS:	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

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

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

White Copy - Original; Yellow Copy - Client

Client: CDM Smith Inc.	Client Sample ID: GP-2A
Project Name: Former Manchester Tank	Collection Date: 10/2/2012 4:50:00 PM
Lab ID: 1210289-001	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	86	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,1-Dichloroethene	16	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
2-Butanone	BRL	50		ug/L	167513	1	10/09/2012 23:56	NP
2-Hexanone	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
Acetone	BRL	50		ug/L	167513	1	10/09/2012 23:56	NP
Benzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Bromodichloromethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Bromoform	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Bromomethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Carbon disulfide	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Chlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Chloroethane	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
Chloroform	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Chloromethane	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
cis-1,2-Dichloroethene	320	50		ug/L	167513	10	10/10/2012 11:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Cyclohexane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Dibromochloromethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Dichlorodifluoromethane	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
Ethylbenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Freon-113	BRL	10		ug/L	167513	1	10/09/2012 23:56	NP
Isopropylbenzene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
m,p-Xylene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Methyl acetate	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Methylcyclohexane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Methylene chloride	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
o-Xylene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: GP-2A
Project Name: Former Manchester Tank	Collection Date: 10/2/2012 4:50:00 PM
Lab ID: 1210289-001	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	167513	1	10/09/2012 23:56	NP
Tetrachloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Toluene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
trans-1,2-Dichloroethene	5.6	5.0		ug/L	167513	1	10/09/2012 23:56	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Trichloroethene	490	50		ug/L	167513	10	10/10/2012 11:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167513	1	10/09/2012 23:56	NP
Vinyl chloride	BRL	2.0		ug/L	167513	1	10/09/2012 23:56	NP
Surr: 4-Bromofluorobenzene	82.7	67.4-123		%REC	167513	1	10/09/2012 23:56	NP
Surr: 4-Bromofluorobenzene	85	67.4-123		%REC	167513	10	10/10/2012 11:00	NP
Surr: Dibromofluoromethane	87.6	75.5-128		%REC	167513	10	10/10/2012 11:00	NP
Surr: Dibromofluoromethane	107	75.5-128		%REC	167513	1	10/09/2012 23:56	NP
Surr: Toluene-d8	85.9	70-120		%REC	167513	1	10/09/2012 23:56	NP
Surr: Toluene-d8	86.1	70-120		%REC	167513	10	10/10/2012 11:00	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: GP-10A
Project Name: Former Manchester Tank	Collection Date: 10/3/2012 1:00:00 PM
Lab ID: 1210289-002	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	167513	1	10/10/2012 00:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
2-Butanone	BRL	50		ug/L	167513	1	10/10/2012 00:25	NP
2-Hexanone	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
Acetone	BRL	50		ug/L	167513	1	10/10/2012 00:25	NP
Benzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Bromodichloromethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Bromoform	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Bromomethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Carbon disulfide	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Chlorobenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Chloroethane	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
Chloroform	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Chloromethane	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Cyclohexane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Dibromochloromethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
Ethylbenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Freon-113	BRL	10		ug/L	167513	1	10/10/2012 00:25	NP
Isopropylbenzene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
m,p-Xylene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Methyl acetate	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Methylcyclohexane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Methylene chloride	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
o-Xylene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: GP-10A
Project Name: Former Manchester Tank	Collection Date: 10/3/2012 1:00:00 PM
Lab ID: 1210289-002	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	167513	1	10/10/2012 00:25	NP
Tetrachloroethene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Toluene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Trichloroethene	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167513	1	10/10/2012 00:25	NP
Vinyl chloride	BRL	2.0		ug/L	167513	1	10/10/2012 00:25	NP
Surr: 4-Bromofluorobenzene	91.3	67.4-123		%REC	167513	1	10/10/2012 00:25	NP
Surr: Dibromofluoromethane	96.5	75.5-128		%REC	167513	1	10/10/2012 00:25	NP
Surr: Toluene-d8	92.4	70-120		%REC	167513	1	10/10/2012 00:25	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/3/2012
Lab ID: 1210289-003	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	167513	1	10/09/2012 21:02	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
2-Butanone	BRL	50		ug/L	167513	1	10/09/2012 21:02	NP
2-Hexanone	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
Acetone	BRL	50		ug/L	167513	1	10/09/2012 21:02	NP
Benzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Bromodichloromethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Bromoform	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Bromomethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Carbon disulfide	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Carbon tetrachloride	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Chlorobenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Chloroethane	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
Chloroform	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Chloromethane	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Cyclohexane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Dibromochloromethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Dichlorodifluoromethane	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
Ethylbenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Freon-113	BRL	10		ug/L	167513	1	10/09/2012 21:02	NP
Isopropylbenzene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
m,p-Xylene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Methyl acetate	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Methylcyclohexane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Methylene chloride	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
o-Xylene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/3/2012
Lab ID: 1210289-003	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	167513	1	10/09/2012 21:02	NP
Tetrachloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Toluene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Trichloroethene	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167513	1	10/09/2012 21:02	NP
Vinyl chloride	BRL	2.0		ug/L	167513	1	10/09/2012 21:02	NP
Surr: 4-Bromofluorobenzene	84.9	67.4-123		%REC	167513	1	10/09/2012 21:02	NP
Surr: Dibromofluoromethane	89	75.5-128		%REC	167513	1	10/09/2012 21:02	NP
Surr: Toluene-d8	90	70-120		%REC	167513	1	10/09/2012 21:02	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1210289

Checklist completed by [Signature] Signature Date 10/04/2012

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 3.3 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
 Project: Former Manchester Tank
 Lab Order: 1210289

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1210289-001A	GP-2A	10/2/2012 4:50:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2012	10/09/2012
1210289-001A	GP-2A	10/2/2012 4:50:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2012	10/10/2012
1210289-002A	GP-10A	10/3/2012 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		10/09/2012	10/10/2012
1210289-003A	TRIP BLANK	10/3/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/09/2012	10/09/2012

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank
 Workorder: 1210289

ANALYTICAL QC SUMMARY REPORT

BatchID: 167513

Sample ID: MB-167513	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828701

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210289

ANALYTICAL QC SUMMARY REPORT

BatchID: 167513

Sample ID: MB-167513	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828701							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.95	0	50	0	91.9	67.4	123	0	0	0	
Surr: Dibromofluoromethane	49.07	0	50	0	98.1	75.5	128	0	0	0	
Surr: Toluene-d8	43.20	0	50	0	86.4	70	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210289

ANALYTICAL QC SUMMARY REPORT

BatchID: 167513

Sample ID: LCS-167513	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828691							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.90	5.0	50	0	102	60	140	0	0	0	
Benzene	52.11	5.0	50	0	104	70	130	0	0	0	
Chlorobenzene	47.06	5.0	50	0	94.1	70	130	0	0	0	
Toluene	52.07	5.0	50	0	104	70	130	0	0	0	
Trichloroethene	51.46	5.0	50	0	103	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.89	0	50	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	48.01	0	50	0	96	75.5	128	0	0	0	
Surr: Toluene-d8	45.90	0	50	0	91.8	70	120	0	0	0	

Sample ID: 1210366-002AMS	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828694							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	29950	2500	25000	0	120	50.1	179	0	0	0	
Benzene	25960	2500	25000	0	104	61.2	150	0	0	0	
Chlorobenzene	24680	2500	25000	0	98.7	72.1	140	0	0	0	
Toluene	31190	2500	25000	5065	104	58.7	154	0	0	0	
Trichloroethene	25320	2500	25000	0	101	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	25300	0	25000	0	101	67.4	123	0	0	0	
Surr: Dibromofluoromethane	21470	0	25000	0	85.9	75.5	128	0	0	0	
Surr: Toluene-d8	23220	0	25000	0	92.9	70	120	0	0	0	

Sample ID: 1210366-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	28790	2500	25000	0	115	50.1	179	29950	3.95	23.3	
Benzene	26670	2500	25000	0	107	61.2	150	25960	2.7	19	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210289

ANALYTICAL QC SUMMARY REPORT

BatchID: 167513

Sample ID: 1210366-002AMSD	Client ID:	Units: ug/L	Prep Date: 10/09/2012	Run No: 230650							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167513	Analysis Date: 10/09/2012	Seq No: 4828697							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	25400	2500	25000	0	102	72.1	140	24680	2.86	21.5	
Toluene	32000	2500	25000	5065	108	58.7	154	31190	2.56	20	
Trichloroethene	26970	2500	25000	0	108	68.3	149	25320	6.31	17.7	
Surr: 4-Bromofluorobenzene	25630	0	25000	0	103	67.4	123	25300	0	0	
Surr: Dibromofluoromethane	23220	0	25000	0	92.9	75.5	128	21470	0	0	
Surr: Toluene-d8	22850	0	25000	0	91.4	70	120	23220	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		



October 22, 2012

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank

Dear Andrew Romanek:

Order No: 1210D23

Analytical Environmental Services, Inc. received 9 samples on 10/16/2012 8:40:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
Project Manager

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	REMARKS	No # of Containers
		DATE	TIME					
1	MW-52C	10/15/12	12:30	X		GW		2
2	MW-46C	10/15/12	13:55	X		GW		2
3	MW-47C	10/15/12	14:30	X		GW		2
4	MW-49C	10/15/12	15:15	X		GW		2
5	MW-50C	10/15/12	15:45	X		GW		2
6	MW-48C	10/15/12	16:15	X		GW		2
7	MW-51C	10/15/12	16:55	X		GW		2
8	MW-43D	10/15/12	17:35	X		GW		2
9	TRIP Blank			X		W		2
10								
11								
12								
13								
14								

COMPANY:	ADDRESS:
CDM Smith	3715 Northside Parkway NW
(404) 720-1400	B-300 S. 400
Nick Fuller	Atlanta, GA 30327
SIGNED BY:	SIGNATURE:
	<i>Nick Fuller</i>

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

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
<i>John</i>	10/16/12 0840	<i>John</i>	10/16/12 6:40

PROJECT NAME:	PROJECT #:
Former Manchester Tank	
SITE ADDRESS:	SEND REPORT TO:
Cedartown, GA	Artras Romanc from Duffey
INVOICE TO:	QUOTE #:
(IF DIFFERENT FROM ABOVE)	
ROMANCE APE CDMSMITH.COM	
DUFFEY J T @ CDMSMITH.COM	

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

SPECIAL INSTRUCTIONS/COMMENTS:
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)	O = Other (specify)	WW = Waste Water
PRESERVATIVE CODES:	H+I = Hydrochloric acid + ice	I = Ice only	N = Nitric acid	S+I = Sulfuric acid + ice	SAM+I = Sodium Bisulfate/Methanol + ice	O = Other (specify)	NA = None	

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

RECEIPT
Total # of Containers
12
Turnaround Time Request
Standard 5 Business Days
2 Business Day Rush
Next Business Day Rush
Same Day Rush (auth req.)
Other

Analytical Environmental Services, Inc

Date: 22-Oct-12

Client: CDM Smith Inc.	Client Sample ID: MW-52C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 12:50:00 PM
Lab ID: 1210D23-001	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	167828	1	10/17/2012 19:06	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
2-Butanone	BRL	50		ug/L	167828	1	10/17/2012 19:06	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
Acetone	BRL	50		ug/L	167828	1	10/17/2012 19:06	NP
Benzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Chloroethane	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Chloromethane	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
cis-1,2-Dichloroethene	21	5.0		ug/L	167828	1	10/17/2012 19:06	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Freon-113	BRL	10		ug/L	167828	1	10/17/2012 19:06	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-52C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 12:50:00 PM
Lab ID: 1210D23-001	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	167828	1	10/17/2012 19:06	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Toluene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Trichloroethene	86	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/17/2012 19:06	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/17/2012 19:06	NP
Surr: 4-Bromofluorobenzene	93.3	64.6-123		%REC	167828	1	10/17/2012 19:06	NP
Surr: Dibromofluoromethane	98.3	76.6-133		%REC	167828	1	10/17/2012 19:06	NP
Surr: Toluene-d8	96	77.8-120		%REC	167828	1	10/17/2012 19:06	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-46C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 1:55:00 PM
Lab ID: 1210D23-002	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	167828	1	10/19/2012 17:47	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 17:47	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 17:47	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 17:47	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-46C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 1:55:00 PM
Lab ID: 1210D23-002	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	167828	1	10/19/2012 17:47	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 17:47	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 17:47	NP
Surr: 4-Bromofluorobenzene	101	64.6-123		%REC	167828	1	10/19/2012 17:47	NP
Surr: Dibromofluoromethane	103	76.6-133		%REC	167828	1	10/19/2012 17:47	NP
Surr: Toluene-d8	95.1	77.8-120		%REC	167828	1	10/19/2012 17:47	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-47C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 2:30:00 PM
Lab ID: 1210D23-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 18:16	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 18:16	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 18:16	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-47C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 2:30:00 PM
Lab ID: 1210D23-003	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	167828	1	10/19/2012 18:16	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:16	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 18:16	NP
Surr: 4-Bromofluorobenzene	101	64.6-123		%REC	167828	1	10/19/2012 18:16	NP
Surr: Dibromofluoromethane	106	76.6-133		%REC	167828	1	10/19/2012 18:16	NP
Surr: Toluene-d8	93.2	77.8-120		%REC	167828	1	10/19/2012 18:16	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-49C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 3:15:00 PM
Lab ID: 1210D23-004	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	167828	1	10/19/2012 18:45	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 18:45	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 18:45	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 18:45	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-49C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 3:15:00 PM
Lab ID: 1210D23-004	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	167828	1	10/19/2012 18:45	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 18:45	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 18:45	NP
Surr: 4-Bromofluorobenzene	101	64.6-123		%REC	167828	1	10/19/2012 18:45	NP
Surr: Dibromofluoromethane	106	76.6-133		%REC	167828	1	10/19/2012 18:45	NP
Surr: Toluene-d8	91.2	77.8-120		%REC	167828	1	10/19/2012 18:45	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-50C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 3:45:00 PM
Lab ID: 1210D23-005	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	167828	1	10/19/2012 19:14	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 19:14	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 19:14	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 19:14	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-50C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 3:45:00 PM
Lab ID: 1210D23-005	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	167828	1	10/19/2012 19:14	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:14	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 19:14	NP
Surr: 4-Bromofluorobenzene	101	64.6-123		%REC	167828	1	10/19/2012 19:14	NP
Surr: Dibromofluoromethane	107	76.6-133		%REC	167828	1	10/19/2012 19:14	NP
Surr: Toluene-d8	95.9	77.8-120		%REC	167828	1	10/19/2012 19:14	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-48C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 4:15:00 PM
Lab ID: 1210D23-006	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	167828	1	10/19/2012 19:42	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 19:42	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 19:42	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 19:42	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-12

Client: CDM Smith Inc.	Client Sample ID: MW-48C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 4:15:00 PM
Lab ID: 1210D23-006	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	167828	1	10/19/2012 19:42	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 19:42	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 19:42	NP
Surr: 4-Bromofluorobenzene	104	64.6-123		%REC	167828	1	10/19/2012 19:42	NP
Surr: Dibromofluoromethane	104	76.6-133		%REC	167828	1	10/19/2012 19:42	NP
Surr: Toluene-d8	93.4	77.8-120		%REC	167828	1	10/19/2012 19:42	NP

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

Client: CDM Smith Inc.	Client Sample ID: MW-51C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 4:55:00 PM
Lab ID: 1210D23-007	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	167828	1	10/19/2012 20:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 20:11	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 20:11	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
cis-1,2-Dichloroethene	250	50		ug/L	167828	10	10/22/2012 11:50	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 20:11	NP
Isopropylbenzene	9.9	5.0		ug/L	167828	1	10/19/2012 20:11	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-51C
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 4:55:00 PM
Lab ID: 1210D23-007	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Toluene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Trichloroethene	330	50		ug/L	167828	10	10/22/2012 11:50	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:11	NP
Vinyl chloride	35	2.0		ug/L	167828	1	10/19/2012 20:11	NP
Surr: 4-Bromofluorobenzene	110	64.6-123		%REC	167828	10	10/22/2012 11:50	NP
Surr: 4-Bromofluorobenzene	115	64.6-123		%REC	167828	1	10/19/2012 20:11	NP
Surr: Dibromofluoromethane	100	76.6-133		%REC	167828	10	10/22/2012 11:50	NP
Surr: Dibromofluoromethane	107	76.6-133		%REC	167828	1	10/19/2012 20:11	NP
Surr: Toluene-d8	91.2	77.8-120		%REC	167828	10	10/22/2012 11:50	NP
Surr: Toluene-d8	96.6	77.8-120		%REC	167828	1	10/19/2012 20:11	NP

Qualifiers:

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

Client: CDM Smith Inc.	Client Sample ID: MW-43D
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 5:35:00 PM
Lab ID: 1210D23-008	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	26	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,1-Dichloroethane	10	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,1-Dichloroethene	54	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
2-Butanone	BRL	50		ug/L	167828	1	10/19/2012 20:40	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
Acetone	BRL	50		ug/L	167828	1	10/19/2012 20:40	NP
Benzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Chloroethane	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Chloromethane	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
cis-1,2-Dichloroethene	290	100		ug/L	167828	20	10/22/2012 12:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Freon-113	BRL	10		ug/L	167828	1	10/19/2012 20:40	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
m,p-Xylene	14	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
o-Xylene	6.4	5.0		ug/L	167828	1	10/19/2012 20:40	NP

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-43D
Project Name: Former Manchester Tank	Collection Date: 10/15/2012 5:35:00 PM
Lab ID: 1210D23-008	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	167828	1	10/19/2012 20:40	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Toluene	20	5.0		ug/L	167828	1	10/19/2012 20:40	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Trichloroethene	1400	100		ug/L	167828	20	10/22/2012 12:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/19/2012 20:40	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/19/2012 20:40	NP
Surr: 4-Bromofluorobenzene	105	64.6-123		%REC	167828	20	10/22/2012 12:18	NP
Surr: 4-Bromofluorobenzene	109	64.6-123		%REC	167828	1	10/19/2012 20:40	NP
Surr: Dibromofluoromethane	104	76.6-133		%REC	167828	1	10/19/2012 20:40	NP
Surr: Dibromofluoromethane	95.2	76.6-133		%REC	167828	20	10/22/2012 12:18	NP
Surr: Toluene-d8	97.8	77.8-120		%REC	167828	1	10/19/2012 20:40	NP
Surr: Toluene-d8	89	77.8-120		%REC	167828	20	10/22/2012 12:18	NP

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/15/2012
Lab ID: 1210D23-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,1-Dichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,1-Dichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2-Dibromoethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2-Dichloroethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,2-Dichloropropane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
2-Butanone	BRL	50		ug/L	167828	1	10/17/2012 18:36	NP
2-Hexanone	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
4-Methyl-2-pentanone	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
Acetone	BRL	50		ug/L	167828	1	10/17/2012 18:36	NP
Benzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Bromodichloromethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Bromoform	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Bromomethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Carbon disulfide	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Carbon tetrachloride	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Chlorobenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Chloroethane	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
Chloroform	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Chloromethane	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Cyclohexane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Dibromochloromethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Dichlorodifluoromethane	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
Ethylbenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Freon-113	BRL	10		ug/L	167828	1	10/17/2012 18:36	NP
Isopropylbenzene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
m,p-Xylene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Methyl acetate	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Methylcyclohexane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Methylene chloride	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
o-Xylene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 22-Oct-12

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/15/2012
Lab ID: 1210D23-009	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Tetrachloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Toluene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Trichloroethene	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Trichlorofluoromethane	BRL	5.0		ug/L	167828	1	10/17/2012 18:36	NP
Vinyl chloride	BRL	2.0		ug/L	167828	1	10/17/2012 18:36	NP
Surr: 4-Bromofluorobenzene	91.7	64.6-123		%REC	167828	1	10/17/2012 18:36	NP
Surr: Dibromofluoromethane	97.9	76.6-133		%REC	167828	1	10/17/2012 18:36	NP
Surr: Toluene-d8	96.2	77.8-120		%REC	167828	1	10/17/2012 18:36	NP

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1210D23

Checklist completed by DeB Signature Date 10/16/12

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 38°C Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____
Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
Project: Former Manchester Tank
Lab Order: 1210D23

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1210D23-001A	MW-52C	10/15/2012 12:50:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/17/2012
1210D23-002A	MW-46C	10/15/2012 1:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-003A	MW-47C	10/15/2012 2:30:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-004A	MW-49C	10/15/2012 3:15:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-005A	MW-50C	10/15/2012 3:45:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-006A	MW-48C	10/15/2012 4:15:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-007A	MW-51C	10/15/2012 4:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-007A	MW-51C	10/15/2012 4:55:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/22/2012
1210D23-008A	MW-43D	10/15/2012 5:35:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/19/2012
1210D23-008A	MW-43D	10/15/2012 5:35:00PM	Groundwater	TCL VOLATILE ORGANICS		10/16/2012	10/22/2012
1210D23-009A	TRIP BLANK	10/15/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		10/16/2012	10/17/2012

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank
 Workorder: 1210D23

ANALYTICAL QC SUMMARY REPORT

BatchID: 167828

Sample ID: MB-167828	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231067
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/16/2012	Seq No: 4838936

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210D23

ANALYTICAL QC SUMMARY REPORT

BatchID: 167828

Sample ID: MB-167828	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231067							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/16/2012	Seq No: 4838936							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	54.13	0	50	0	108	64.6	123	0	0	0	
Surr: Dibromofluoromethane	39.30	0	50	0	78.6	76.6	133	0	0	0	
Surr: Toluene-d8	44.19	0	50	0	88.4	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210D23

ANALYTICAL QC SUMMARY REPORT

BatchID: 167828

Sample ID: LCS-167828	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231182							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/17/2012	Seq No: 4840298							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.27	5.0	50	0	94.5	60	140	0	0	0	
Benzene	47.81	5.0	50	0	95.6	70	130	0	0	0	
Chlorobenzene	43.62	5.0	50	0	87.2	70	130	0	0	0	
Toluene	46.12	5.0	50	0	92.2	70	130	0	0	0	
Trichloroethene	49.34	5.0	50	0	98.7	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	49.38	0	50	0	98.8	64.6	123	0	0	0	
Surr: Dibromofluoromethane	49.70	0	50	0	99.4	76.6	133	0	0	0	
Surr: Toluene-d8	49.40	0	50	0	98.8	77.8	120	0	0	0	

Sample ID: 1210C23-004AMS	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231182							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/17/2012	Seq No: 4840299							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.34	5.0	50	0	107	50.1	179	0	0	0	
Benzene	52.84	5.0	50	0	106	61.2	150	0	0	0	
Chlorobenzene	49.16	5.0	50	0	98.3	72.1	140	0	0	0	
Toluene	52.80	5.0	50	0	106	58.7	154	0	0	0	
Trichloroethene	51.77	5.0	50	0	104	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	51.70	0	50	0	103	64.6	123	0	0	0	
Surr: Dibromofluoromethane	48.98	0	50	0	98	76.6	133	0	0	0	
Surr: Toluene-d8	48.47	0	50	0	96.9	77.8	120	0	0	0	

Sample ID: 1210C23-004AMSD	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231182							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/17/2012	Seq No: 4840301							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.93	5.0	50	0	102	50.1	179	53.34	4.62	23.3	
Benzene	51.89	5.0	50	0	104	61.2	150	52.84	1.81	19	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210D23

ANALYTICAL QC SUMMARY REPORT

BatchID: 167828

Sample ID: 1210C23-004AMSD	Client ID:	Units: ug/L	Prep Date: 10/16/2012	Run No: 231182							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 167828	Analysis Date: 10/17/2012	Seq No: 4840301							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	48.26	5.0	50	0	96.5	72.1	140	49.16	1.85	21.5	
Toluene	51.16	5.0	50	0	102	58.7	154	52.80	3.16	20	
Trichloroethene	52.74	5.0	50	0	105	68.3	149	51.77	1.86	17.7	
Surr: 4-Bromofluorobenzene	52.01	0	50	0	104	64.6	123	51.70	0	0	
Surr: Dibromofluoromethane	49.99	0	50	0	100	76.6	133	48.98	0	0	
Surr: Toluene-d8	48.73	0	50	0	97.5	77.8	120	48.47	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.

November 06, 2012

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank

Dear Andrew Romanek:

Order No: 1210Q05

Analytical Environmental Services, Inc. received 4 samples on 10/31/2012 11:00:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 12160005

Date: _____ Page _____ of _____

COMPANY:		ADDRESS:		SIGNATURE:		SIGNED:		DATE/TIME		RECEIVED BY		DATE/TIME	
CDM Smith		3715 Northside Pkwy, NW Bldg. 303, Ste. 400 Atlanta, GA 30327		<i>Matthew R. Howe</i>		<i>Matthew R. Howe</i>				<i>Matthew R. Howe</i>		10/31/12 11:00am	
PHONE: 404-720-1400		FAX: _____		SIGNATURE: _____		SIGNED: _____				RECEIVED BY: _____		DATE/TIME: _____	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)		ANALYSIS REQUESTED	REMARKS	No # of Containers		
		DATE	TIME				HL						
1	MW45C01 } 1 sample	10/30/12	1540	X		GW					1		
2	MW45C02 } 1 sample	10/30/12	1542	X		GW					1		
3	MW44C01 } 1 sample	10/30/12	1600	X		GW					1		
4	MW44C02 } 1 sample	10/30/12	1622	X		GW					1		
5	MW41C01 } 1 sample	10/30/12	1845	X		GW					1		
6	MW41C02 } 1 sample	10/30/12	1847	X		GW					1		
7	Trip Blank	10/30/12									1		
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.

VOCs (BACO)

Purge Bucket Sample # 1

PROJECT NAME:
Former Manchester Tank

PROJECT #:
Cedartown, GA

SITE ADDRESS:
Andrew Romanek/Tom Duffey

SEND REPORT TO:
romanek.ape@COMSMITH.COM
duffy.jte@COMSMITH.COM

QUOTE #:
PO#:

RECEIVED BY: _____
DATE/TIME: 10/31/12 11:00

RECEIVED BY: _____
DATE/TIME: _____

RECEIVED BY: _____
DATE/TIME: _____

SPECIAL INSTRUCTIONS/COMMENTS:
* Grabbed purge bucket sample
because I lost bailer, use
MW41C02 first.

RECEIVED BY: _____
DATE/TIME: _____

RECEIVED BY: _____
DATE/TIME: _____

RECEIVED BY: _____
DATE/TIME: _____

SPECIAL INSTRUCTIONS/COMMENTS:
SHIPMENT METHOD
OUT _____ VIA _____
IN _____ VIA _____
CLIENT _____ UPS MAIL COURIER
GREYHOUND OTHER _____

TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

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

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+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S/M+1 = Sodium Bisulfate/Methanol + ice NA = None

White Copy - Original; Yellow Copy - Client

Client: CDM Smith Inc.	Client Sample ID: MW45CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 3:42:00 PM
Lab ID: 1210Q05-001	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	168480	1	11/02/2012 16:44	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,1-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,1-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2-Dibromoethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,2-Dichloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
2-Butanone	BRL	50		ug/L	168480	1	11/02/2012 16:44	YT
2-Hexanone	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
4-Methyl-2-pentanone	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
Acetone	BRL	50		ug/L	168480	1	11/02/2012 16:44	YT
Benzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Bromodichloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Bromoform	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Bromomethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Carbon disulfide	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Carbon tetrachloride	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Chlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Chloroethane	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
Chloroform	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Chloromethane	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Cyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Dibromochloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Dichlorodifluoromethane	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
Ethylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Freon-113	BRL	10		ug/L	168480	1	11/02/2012 16:44	YT
Isopropylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
m,p-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Methyl acetate	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Methylcyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Methylene chloride	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
o-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT

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-12

Client: CDM Smith Inc.	Client Sample ID: MW45CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 3:42:00 PM
Lab ID: 1210Q05-001	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	168480	1	11/02/2012 16:44	YT
Tetrachloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Toluene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Trichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Trichlorofluoromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:44	YT
Vinyl chloride	BRL	2.0		ug/L	168480	1	11/02/2012 16:44	YT
Surr: 4-Bromofluorobenzene	94.5	64.6-123		%REC	168480	1	11/02/2012 16:44	YT
Surr: Dibromofluoromethane	109	76.6-133		%REC	168480	1	11/02/2012 16:44	YT
Surr: Toluene-d8	100	77.8-120		%REC	168480	1	11/02/2012 16:44	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW44CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 4:22:00 PM
Lab ID: 1210Q05-002	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	168480	1	11/02/2012 17:12	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,1-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,1-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2-Dibromoethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,2-Dichloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
2-Butanone	BRL	50		ug/L	168480	1	11/02/2012 17:12	YT
2-Hexanone	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
4-Methyl-2-pentanone	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
Acetone	BRL	50		ug/L	168480	1	11/02/2012 17:12	YT
Benzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Bromodichloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Bromoform	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Bromomethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Carbon disulfide	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Carbon tetrachloride	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Chlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Chloroethane	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
Chloroform	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Chloromethane	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Cyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Dibromochloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Dichlorodifluoromethane	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
Ethylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Freon-113	BRL	10		ug/L	168480	1	11/02/2012 17:12	YT
Isopropylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
m,p-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Methyl acetate	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Methylcyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Methylene chloride	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
o-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW44CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 4:22:00 PM
Lab ID: 1210Q05-002	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	168480	1	11/02/2012 17:12	YT
Tetrachloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Toluene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Trichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Trichlorofluoromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:12	YT
Vinyl chloride	BRL	2.0		ug/L	168480	1	11/02/2012 17:12	YT
Surr: 4-Bromofluorobenzene	92.4	64.6-123		%REC	168480	1	11/02/2012 17:12	YT
Surr: Dibromofluoromethane	106	76.6-133		%REC	168480	1	11/02/2012 17:12	YT
Surr: Toluene-d8	98.1	77.8-120		%REC	168480	1	11/02/2012 17:12	YT

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

Client: CDM Smith Inc.	Client Sample ID: MW41CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 6:47:00 PM
Lab ID: 1210Q05-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,1-Dichloroethane	86	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,1-Dichloroethene	270	50		ug/L	168480	10	11/02/2012 20:11	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,2-Dibromoethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,2-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,2-Dichloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
2-Butanone	BRL	50		ug/L	168480	1	11/02/2012 17:42	YT
2-Hexanone	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
4-Methyl-2-pentanone	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
Acetone	BRL	50		ug/L	168480	1	11/02/2012 17:42	YT
Benzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Bromodichloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Bromoform	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Bromomethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Carbon disulfide	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Carbon tetrachloride	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Chlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Chloroethane	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
Chloroform	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Chloromethane	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
cis-1,2-Dichloroethene	6300	500		ug/L	168480	100	11/02/2012 19:42	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Cyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Dibromochloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Dichlorodifluoromethane	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
Ethylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Freon-113	BRL	10		ug/L	168480	1	11/02/2012 17:42	YT
Isopropylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
m,p-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Methyl acetate	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Methylcyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Methylene chloride	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
o-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT

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-12

Client: CDM Smith Inc.	Client Sample ID: MW41CO1/O2
Project Name: Former Manchester Tank	Collection Date: 10/30/2012 6:47:00 PM
Lab ID: 1210Q05-003	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	168480	1	11/02/2012 17:42	YT
Tetrachloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Toluene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
trans-1,2-Dichloroethene	65	5.0		ug/L	168480	1	11/02/2012 17:42	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Trichloroethene	6200	500		ug/L	168480	100	11/02/2012 19:42	YT
Trichlorofluoromethane	BRL	5.0		ug/L	168480	1	11/02/2012 17:42	YT
Vinyl chloride	150	2.0		ug/L	168480	1	11/02/2012 17:42	YT
Surr: 4-Bromofluorobenzene	90.5	64.6-123		%REC	168480	1	11/02/2012 17:42	YT
Surr: 4-Bromofluorobenzene	92.1	64.6-123		%REC	168480	100	11/02/2012 19:42	YT
Surr: 4-Bromofluorobenzene	93	64.6-123		%REC	168480	10	11/02/2012 20:11	YT
Surr: Dibromofluoromethane	106	76.6-133		%REC	168480	1	11/02/2012 17:42	YT
Surr: Dibromofluoromethane	109	76.6-133		%REC	168480	100	11/02/2012 19:42	YT
Surr: Dibromofluoromethane	110	76.6-133		%REC	168480	10	11/02/2012 20:11	YT
Surr: Toluene-d8	99.6	77.8-120		%REC	168480	1	11/02/2012 17:42	YT
Surr: Toluene-d8	99.4	77.8-120		%REC	168480	100	11/02/2012 19:42	YT
Surr: Toluene-d8	101	77.8-120		%REC	168480	10	11/02/2012 20:11	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/31/2012
Lab ID: 1210Q05-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,1-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,1-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2-Dibromoethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2-Dichloroethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,2-Dichloropropane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
2-Butanone	BRL	50		ug/L	168480	1	11/02/2012 16:15	YT
2-Hexanone	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
4-Methyl-2-pentanone	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
Acetone	BRL	50		ug/L	168480	1	11/02/2012 16:15	YT
Benzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Bromodichloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Bromoform	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Bromomethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Carbon disulfide	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Carbon tetrachloride	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Chlorobenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Chloroethane	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
Chloroform	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Chloromethane	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Cyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Dibromochloromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Dichlorodifluoromethane	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
Ethylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Freon-113	BRL	10		ug/L	168480	1	11/02/2012 16:15	YT
Isopropylbenzene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
m,p-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Methyl acetate	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Methylcyclohexane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Methylene chloride	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
o-Xylene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Former Manchester Tank	Collection Date: 10/31/2012
Lab ID: 1210Q05-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Tetrachloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Toluene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Trichloroethene	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Trichlorofluoromethane	BRL	5.0		ug/L	168480	1	11/02/2012 16:15	YT
Vinyl chloride	BRL	2.0		ug/L	168480	1	11/02/2012 16:15	YT
Surr: 4-Bromofluorobenzene	93.6	64.6-123		%REC	168480	1	11/02/2012 16:15	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	168480	1	11/02/2012 16:15	YT
Surr: Toluene-d8	97.4	77.8-120		%REC	168480	1	11/02/2012 16:15	YT

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 CDM Smith

Work Order Number 1210QDS

Checklist completed by [Signature] 10/31/12
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

Client: CDM Smith Inc.
 Project: Former Manchester Tank
 Lab Order: 1210Q05

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1210Q05-001A	MW45CO1/O2	10/30/2012 3:42:00PM	Groundwater	TCL VOLATILE ORGANICS		11/01/2012	11/02/2012
1210Q05-002A	MW44CO1/O2	10/30/2012 4:22:00PM	Groundwater	TCL VOLATILE ORGANICS		11/01/2012	11/02/2012
1210Q05-003A	MW41CO1/O2	10/30/2012 6:47:00PM	Groundwater	TCL VOLATILE ORGANICS		11/01/2012	11/02/2012
1210Q05-004A	TRIP BLANK	10/31/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		11/01/2012	11/02/2012

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank
 Workorder: 1210Q05

ANALYTICAL QC SUMMARY REPORT

BatchID: 168480

Sample ID: MB-168480	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862659

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210Q05

ANALYTICAL QC SUMMARY REPORT

BatchID: 168480

Sample ID: MB-168480	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862659							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	46.83	0	50	0	93.7	64.6	123	0	0	0	
Surr: Dibromofluoromethane	54.11	0	50	0	108	76.6	133	0	0	0	
Surr: Toluene-d8	49.68	0	50	0	99.4	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210Q05

ANALYTICAL QC SUMMARY REPORT

BatchID: 168480

Sample ID: LCS-168480	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862652							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	62.83	5.0	50	0	126	60	140	0	0	0	
Benzene	55.72	5.0	50	0	111	70	130	0	0	0	
Chlorobenzene	48.21	5.0	50	0	96.4	70	130	0	0	0	
Toluene	55.96	5.0	50	0	112	70	130	0	0	0	
Trichloroethene	57.32	5.0	50	0	115	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	52.89	0	50	0	106	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.96	0	50	0	108	76.6	133	0	0	0	
Surr: Toluene-d8	50.74	0	50	0	101	77.8	120	0	0	0	

Sample ID: 1210N84-007AMS	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862682							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	556.4	50	500	0	111	50.1	179	0	0	0	
Benzene	485.2	50	500	0	97	61.2	150	0	0	0	
Chlorobenzene	422.6	50	500	0	84.5	72.1	140	0	0	0	
Toluene	490.2	50	500	0	98	58.7	154	0	0	0	
Trichloroethene	526.0	50	500	0	105	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	508.9	0	500	0	102	64.6	123	0	0	0	
Surr: Dibromofluoromethane	516.0	0	500	0	103	76.6	133	0	0	0	
Surr: Toluene-d8	486.5	0	500	0	97.3	77.8	120	0	0	0	

Sample ID: 1210N84-007AMSD	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862799							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	529.9	50	500	0	106	50.1	179	556.4	4.88	23.3	
Benzene	471.2	50	500	0	94.2	61.2	150	485.2	2.93	19	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1210Q05

ANALYTICAL QC SUMMARY REPORT

BatchID: 168480

Sample ID: 1210N84-007AMSD	Client ID:	Units: ug/L	Prep Date: 11/01/2012	Run No: 232123
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 168480	Analysis Date: 11/01/2012	Seq No: 4862799

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	423.3	50	500	0	84.7	72.1	140	422.6	0.166	21.5	
Toluene	484.2	50	500	0	96.8	58.7	154	490.2	1.23	20	
Trichloroethene	514.0	50	500	0	103	68.3	149	526.0	2.31	17.7	
Surr: 4-Bromofluorobenzene	512.7	0	500	0	103	64.6	123	508.9	0	0	
Surr: Dibromofluoromethane	519.1	0	500	0	104	76.6	133	516.0	0	0	
Surr: Toluene-d8	490.1	0	500	0	98	77.8	120	486.5	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.

January 25, 2013

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Former Manchester Tank

Dear Andrew Romanek:

Order No: 1301G84

Analytical Environmental Services, Inc. received 1 samples on 1/23/2013 3:50:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Sharissa Hall
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY 1301684

Work Order: 1301684

PT-121115

Date: 1/23/13 Page 1 of 1

COMPANY: CDM Smith		ADDRESS: 3715 Northside Parkway New B 300 S 400 Atlanta, GA 30327			No # of Containers	
PHONE: (404) 730 1400		FAX:			Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.	
SAMPLED BY: Pick Fuller		SIGNATURES: <i>[Signature]</i>			REMARKS	
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)
		DATE	TIME			
1	MW-42C	1/23/13	0940	X		GW
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME 1/23/13 1550	RECEIVED BY: <i>[Signature]</i>	DATE/TIME 1/23/13 1550
PROJECT NAME: Former Mandox ster Tank		PROJECT INFORMATION	
PROJECT #:		Total # of Containers: 2	
SITE ADDRESS: Cedar-town, GA		Turnaround Time Request: <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req) <input type="radio"/> Other	
SEND REPORT TO: Andrew Romanek		STATE PROGRAM (if any):	
INVOICE TO: romanek A@cdmsmith.com		E-mail? Y/N; Fax? Y/N	
QUOTE #:		DATA PACKAGE: I II III IV	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD: OUT / / VIA: IN 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+1 = 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

Analytical Environmental Services, Inc

Date: 25-Jan-13

Client: CDM Smith Inc.	Client Sample ID: MW-42C
Project Name: Former Manchester Tank	Collection Date: 1/23/2013 9:40:00 AM
Lab ID: 1301G84-001	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	171576	1	01/24/2013 17:44	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,1-Dichloroethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,1-Dichloroethene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2-Dibromoethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,2-Dichloropropane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
2-Butanone	BRL	50		ug/L	171576	1	01/24/2013 17:44	GK
2-Hexanone	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
4-Methyl-2-pentanone	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
Acetone	BRL	50		ug/L	171576	1	01/24/2013 17:44	GK
Benzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Bromodichloromethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Bromoform	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Bromomethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Carbon disulfide	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Chlorobenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Chloroethane	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
Chloroform	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Chloromethane	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Cyclohexane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Dibromochloromethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Dichlorodifluoromethane	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
Ethylbenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Freon-113	BRL	10		ug/L	171576	1	01/24/2013 17:44	GK
Isopropylbenzene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
m,p-Xylene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Methyl acetate	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Methylcyclohexane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Methylene chloride	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
o-Xylene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 25-Jan-13

Client: CDM Smith Inc.	Client Sample ID: MW-42C
Project Name: Former Manchester Tank	Collection Date: 1/23/2013 9:40:00 AM
Lab ID: 1301G84-001	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	171576	1	01/24/2013 17:44	GK
Tetrachloroethene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Toluene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Trichloroethene	30	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Trichlorofluoromethane	BRL	5.0		ug/L	171576	1	01/24/2013 17:44	GK
Vinyl chloride	BRL	2.0		ug/L	171576	1	01/24/2013 17:44	GK
Surr: 4-Bromofluorobenzene	90.8	64.6-123		%REC	171576	1	01/24/2013 17:44	GK
Surr: Dibromofluoromethane	108	76.6-133		%REC	171576	1	01/24/2013 17:44	GK
Surr: Toluene-d8	94.4	77.8-120		%REC	171576	1	01/24/2013 17:44	GK

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Work Order Number 1301684

Checklist completed by [Signature] Date 1/24/13

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

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Sample Condition: Good Adjusted? _____ Other(Explain) _____
Checked by _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
Project: Former Manchester Tank
Lab Order: 1301G84

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1301G84-001A	MW-42C	1/23/2013 9:40:00AM	Groundwater	TCL VOLATILE ORGANICS		01/24/2013	01/24/2013

Client: CDM Smith Inc.
 Project Name: Former Manchester Tank
 Workorder: 1301G84

ANALYTICAL QC SUMMARY REPORT

BatchID: 171576

Sample ID: MB-171576	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965762							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1301G84

ANALYTICAL QC SUMMARY REPORT

BatchID: 171576

Sample ID: MB-171576	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965762							
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	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	0
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Freon-113	BRL	10	0	0	0	0	0	0	0	0	0
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	0
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	0
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	0
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	0
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	0
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	0
Surr: 4-Bromofluorobenzene	44.30	0	50	0	88.6	64.6	123	0	0	0	
Surr: Dibromofluoromethane	54.33	0	50	0	109	76.6	133	0	0	0	
Surr: Toluene-d8	47.66	0	50	0	95.3	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1301G84

ANALYTICAL QC SUMMARY REPORT

BatchID: 171576

Sample ID: LCS-171576	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965760							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.74	5.0	50	0	95.5	61.1	142	0	0	0	
Benzene	52.80	5.0	50	0	106	73.5	130	0	0	0	
Chlorobenzene	58.91	5.0	50	0	118	72.4	123	0	0	0	
Toluene	52.11	5.0	50	0	104	73.6	130	0	0	0	
Trichloroethene	56.19	5.0	50	0	112	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	53.58	0	50	0	107	64.6	123	0	0	0	
Surr: Dibromofluoromethane	55.95	0	50	0	112	76.6	133	0	0	0	
Surr: Toluene-d8	47.12	0	50	0	94.2	77.8	120	0	0	0	

Sample ID: 1301G77-001AMS	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965765							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.33	5.0	50	0	103	60	168	0	0	0	
Benzene	54.28	5.0	50	0	109	66.6	148	0	0	0	
Chlorobenzene	57.16	5.0	50	0	114	71.9	135	0	0	0	
Toluene	54.76	5.0	50	0	110	68	149	0	0	0	
Trichloroethene	57.31	5.0	50	0	115	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	50.29	0	50	0	101	64.6	123	0	0	0	
Surr: Dibromofluoromethane	55.28	0	50	0	111	76.6	133	0	0	0	
Surr: Toluene-d8	48.72	0	50	0	97.4	77.8	120	0	0	0	

Sample ID: 1301G77-001AMSD	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965767							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	50.10	5.0	50	0	100	60	168	51.33	2.43	18.6	
Benzene	52.42	5.0	50	0	105	66.6	148	54.28	3.49	20	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Former Manchester Tank
Workorder: 1301G84

ANALYTICAL QC SUMMARY REPORT

BatchID: 171576

Sample ID: 1301G77-001AMSD	Client ID:	Units: ug/L	Prep Date: 01/24/2013	Run No: 237157							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 171576	Analysis Date: 01/24/2013	Seq No: 4965767							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	56.86	5.0	50	0	114	71.9	135	57.16	0.526	20	
Toluene	54.03	5.0	50	0	108	68	149	54.76	1.34	20	
Trichloroethene	57.21	5.0	50	0	114	71.1	154	57.31	0.175	20	
Surr: 4-Bromofluorobenzene	51.48	0	50	0	103	64.6	123	50.29	0	0	
Surr: Dibromofluoromethane	56.38	0	50	0	113	76.6	133	55.28	0	0	
Surr: Toluene-d8	49.25	0	50	0	98.5	77.8	120	48.72	0	0	

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



March 11, 2013

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway, Northcreek 30
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Cedartown

Dear Andrew Romanek:

Order No: 1303122

Analytical Environmental Services, Inc. received 4 samples on March 1, 2013 3:35 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 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Larissa Elslev
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: 1903122 54504

Date: 3/1/13 Page 1 of 1

COMPANY:		ADDRESS:				ANALYSIS REQUESTED		No # of Containers	
CDM Smith		3715 Northside Pkwy, Bldg 300, Suite 400 Atlanta, GA 30327				Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.			
PHONE: 404-720-1400		FAX:		SIGNATURE: <i>Daniel Forbes</i>		PRESERVATION (See codes)		REMARKS	
#	SAMPLE ID	SAMPLED		Composite	Matrix (See codes)	Grab	Date	Time	No # of Containers
		DATE	TIME						
1	MW-41C	2-28-13	1510	✓	GW				2
2	MW-43D	2-28-13	1630	✓	GW				2
3	MW-54C Soil IDW	3-1-13	0930	✓	SO				2
4	TRIP BLANKS	-	-	✓	W				2
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION	RECEIPT
<i>Daniel Forbes</i>	3/1/13	<i>[Signature]</i>	3/5/13	Project Name: <u>Cedartown</u>	Total # of Containers: <u>8</u>
<i>[Signature]</i>	3-1-13 1535	<i>[Signature]</i>	3/1/13	Project #: _____ Site Address: _____	Turnaround Time Request: <input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____
SPECIAL INSTRUCTIONS/COMMENTS:				SEND REPORT TO: <u>Andrew Romanel</u>	
SHIPMENT METHOD: OUT / / / VIA: IN / / / VIA: <u>COURIER</u>				INVOICE TO: _____ (IF DIFFERENT FROM ABOVE)	
STATE PROGRAM (if any): _____ E-mail? Y/N; Fax? Y/N				DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.
 MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None
 White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 11-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-41C
Project Name: Cedartown	Collection Date: 2/28/2013 3:10:00 PM
Lab ID: 1303122-001	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	173092	1	03/04/2013 19:53	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,1-Dichloroethane	91	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,1-Dichloroethene	120	50		ug/L	173092	10	03/07/2013 20:22	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
2-Butanone	BRL	50		ug/L	173092	1	03/04/2013 19:53	YT
2-Hexanone	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
Acetone	BRL	50		ug/L	173092	1	03/04/2013 19:53	YT
Benzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Bromodichloromethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Bromoform	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Bromomethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Carbon disulfide	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Carbon tetrachloride	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Chlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Chloroethane	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
Chloroform	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Chloromethane	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
cis-1,2-Dichloroethene	4900	500		ug/L	173092	100	03/05/2013 15:14	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Cyclohexane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Dibromochloromethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Dichlorodifluoromethane	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
Ethylbenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Freon-113	BRL	10		ug/L	173092	1	03/04/2013 19:53	YT
Isopropylbenzene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
m,p-Xylene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Methyl acetate	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Methylcyclohexane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Methylene chloride	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
o-Xylene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-41C
Project Name: Cedartown	Collection Date: 2/28/2013 3:10:00 PM
Lab ID: 1303122-001	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	173092	1	03/04/2013 19:53	YT
Tetrachloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Toluene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
trans-1,2-Dichloroethene	54	5.0		ug/L	173092	1	03/04/2013 19:53	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Trichloroethene	4100	500		ug/L	173092	100	03/05/2013 15:14	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173092	1	03/04/2013 19:53	YT
Vinyl chloride	100	2.0		ug/L	173092	1	03/04/2013 19:53	YT
Surr: 4-Bromofluorobenzene	92.8	64.6-123		%REC	173092	1	03/04/2013 19:53	YT
Surr: 4-Bromofluorobenzene	93.3	64.6-123		%REC	173092	100	03/05/2013 15:14	YT
Surr: 4-Bromofluorobenzene	94.6	64.6-123		%REC	173092	10	03/07/2013 20:22	GK
Surr: Dibromofluoromethane	97.8	76.6-133		%REC	173092	10	03/07/2013 20:22	GK
Surr: Dibromofluoromethane	108	76.6-133		%REC	173092	1	03/04/2013 19:53	YT
Surr: Dibromofluoromethane	109	76.6-133		%REC	173092	100	03/05/2013 15:14	YT
Surr: Toluene-d8	92	77.8-120		%REC	173092	1	03/04/2013 19:53	YT
Surr: Toluene-d8	99.1	77.8-120		%REC	173092	10	03/07/2013 20:22	GK
Surr: Toluene-d8	101	77.8-120		%REC	173092	100	03/05/2013 15:14	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 11-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-43D
Project Name: Cedartown	Collection Date: 2/28/2013 4:50:00 PM
Lab ID: 1303122-002	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	16	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,1-Dichloroethane	9.9	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,1-Dichloroethene	52	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
2-Butanone	BRL	50		ug/L	173092	1	03/05/2013 17:14	YT
2-Hexanone	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
Acetone	BRL	50		ug/L	173092	1	03/05/2013 17:14	YT
Benzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Bromodichloromethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Bromoform	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Bromomethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Carbon disulfide	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Carbon tetrachloride	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Chlorobenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Chloroethane	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
Chloroform	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Chloromethane	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
cis-1,2-Dichloroethene	240	50		ug/L	173092	10	03/04/2013 18:25	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Cyclohexane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Dibromochloromethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Dichlorodifluoromethane	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
Ethylbenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Freon-113	BRL	10		ug/L	173092	1	03/05/2013 17:14	YT
Isopropylbenzene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
m,p-Xylene	6.3	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Methyl acetate	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Methylcyclohexane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Methylene chloride	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
o-Xylene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-43D
Project Name: Cedartown	Collection Date: 2/28/2013 4:50:00 PM
Lab ID: 1303122-002	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	173092	1	03/05/2013 17:14	YT
Tetrachloroethene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Toluene	8.5	5.0		ug/L	173092	1	03/05/2013 17:14	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Trichloroethene	910	50		ug/L	173092	10	03/04/2013 18:25	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173092	1	03/05/2013 17:14	YT
Vinyl chloride	BRL	2.0		ug/L	173092	1	03/05/2013 17:14	YT
Surr: 4-Bromofluorobenzene	82.6	64.6-123		%REC	173092	1	03/05/2013 17:14	YT
Surr: 4-Bromofluorobenzene	86.4	64.6-123		%REC	173092	10	03/04/2013 18:25	YT
Surr: Dibromofluoromethane	101	76.6-133		%REC	173092	10	03/04/2013 18:25	YT
Surr: Dibromofluoromethane	108	76.6-133		%REC	173092	1	03/05/2013 17:14	YT
Surr: Toluene-d8	94.5	77.8-120		%REC	173092	1	03/05/2013 17:14	YT
Surr: Toluene-d8	96.2	77.8-120		%REC	173092	10	03/04/2013 18:25	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 11-Mar-13

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANKS
Project Name: Cedartown	Collection Date: 3/1/2013
Lab ID: 1303122-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5030B)						
1,1,1-Trichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
2-Butanone	BRL	50		ug/L	173092	1	03/04/2013 18:54	YT
2-Hexanone	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
Acetone	BRL	50		ug/L	173092	1	03/04/2013 18:54	YT
Benzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Bromodichloromethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Bromoform	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Bromomethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Carbon disulfide	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Carbon tetrachloride	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Chlorobenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Chloroethane	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
Chloroform	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Chloromethane	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Cyclohexane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Dibromochloromethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Dichlorodifluoromethane	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
Ethylbenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Freon-113	BRL	10		ug/L	173092	1	03/04/2013 18:54	YT
Isopropylbenzene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
m,p-Xylene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Methyl acetate	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Methylcyclohexane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Methylene chloride	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
o-Xylene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANKS
Project Name: Cedartown	Collection Date: 3/1/2013
Lab ID: 1303122-004	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5030B)			
Styrene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Tetrachloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Toluene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Trichloroethene	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173092	1	03/04/2013 18:54	YT
Vinyl chloride	BRL	2.0		ug/L	173092	1	03/04/2013 18:54	YT
Surr: 4-Bromofluorobenzene	91.8	64.6-123		%REC	173092	1	03/04/2013 18:54	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	173092	1	03/04/2013 18:54	YT
Surr: Toluene-d8	94.8	77.8-120		%REC	173092	1	03/04/2013 18:54	YT

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 CDM

Work Order Number 1303122

Checklist completed by [Signature] Date 3/1/13

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 31 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173092

Sample ID: MB-173092	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239444							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/04/2013	Seq No: 5012159							
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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173092

Sample ID: MB-173092	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239444							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/04/2013	Seq No: 5012159							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	44.72	0	50	0	89.4	64.6	123	0	0	0	
Surr: Dibromofluoromethane	48.64	0	50	0	97.3	76.6	133	0	0	0	
Surr: Toluene-d8	47.25	0	50	0	94.5	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173092

Sample ID: LCS-173092	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239444							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/04/2013	Seq No: 5012157							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.05	5.0	50	0	106	61.1	142	0	0	0	
Benzene	49.61	5.0	50	0	99.2	73.5	130	0	0	0	
Chlorobenzene	43.07	5.0	50	0	86.1	72.4	123	0	0	0	
Toluene	44.23	5.0	50	0	88.5	73.6	130	0	0	0	
Trichloroethene	47.98	5.0	50	0	96	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	53.31	0	50	0	107	64.6	123	0	0	0	
Surr: Dibromofluoromethane	48.63	0	50	0	97.3	76.6	133	0	0	0	
Surr: Toluene-d8	48.60	0	50	0	97.2	77.8	120	0	0	0	

Sample ID: 1303022-001AMS	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239568							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/06/2013	Seq No: 5016423							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2210	250	2500	0	88.4	60	168	0	0	0	
Benzene	2142	250	2500	0	85.7	66.6	148	0	0	0	
Chlorobenzene	2656	250	2500	0	106	71.9	135	0	0	0	
Toluene	1933	250	2500	0	77.3	68	149	0	0	0	
Trichloroethene	8612	250	2500	7152	58.4	71.1	154	0	0	0	S
Surr: 4-Bromofluorobenzene	2400	0	2500	0	96	64.6	123	0	0	0	
Surr: Dibromofluoromethane	2376	0	2500	0	95.1	76.6	133	0	0	0	
Surr: Toluene-d8	2268	0	2500	0	90.7	77.8	120	0	0	0	

Sample ID: 1303022-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239568							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/06/2013	Seq No: 5016424							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2110	250	2500	0	84.4	60	168	2210	4.58	18.6	
Benzene	2041	250	2500	0	81.6	66.6	148	2142	4.85	20	

Qualifiers:

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173092

Sample ID: 1303022-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/04/2013	Run No: 239568							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173092	Analysis Date: 03/06/2013	Seq No: 5016424							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	2472	250	2500	0	98.9	71.9	135	2656	7.18	20	
Toluene	1837	250	2500	0	73.5	68	149	1933	5.09	20	
Trichloroethene	8146	250	2500	7152	39.8	71.1	154	8612	5.55	20	S
Surr: 4-Bromofluorobenzene	2285	0	2500	0	91.4	64.6	123	2400	0	0	
Surr: Dibromofluoromethane	2334	0	2500	0	93.3	76.6	133	2376	0	0	
Surr: Toluene-d8	2206	0	2500	0	88.3	77.8	120	2268	0	0	

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173124

Sample ID: MB-173124	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013317							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	0	
Benzene	BRL	0.10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.8568	0	1	0	85.7	65	129	0	0	0	
Surr: Dibromofluoromethane	1.020	0	1	0	102	72.3	129	0	0	0	
Surr: Toluene-d8	0.9686	0	1	0	96.9	74.2	118	0	0	0	

Sample ID: LCS-173124	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013316							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.9780	0.10	1	0	97.8	53	139	0	0	0	
1,2-Dichloroethane	1.123	0.10	1	0	112	62	143	0	0	0	
2-Butanone	1.996	0.20	2	0	99.8	42	146	0	0	0	
Benzene	0.9910	0.10	1	0	99.1	70.6	128	0	0	0	
Carbon tetrachloride	0.8600	0.10	1	0	86	56	146	0	0	0	
Chlorobenzene	0.8960	0.10	1	0	89.6	73	121	0	0	0	
Chloroform	1.080	0.10	1	0	108	64.6	129	0	0	0	
Tetrachloroethene	0.8314	0.10	1	0	83.1	70.5	131	0	0	0	
Trichloroethene	0.9422	0.10	1	0	94.2	69.3	129	0	0	0	
Vinyl chloride	1.033	0.040	1	0	103	46.1	139	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173124

Sample ID: LCS-173124	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013316							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	1.067	0	1	0	107	65	129	0	0	0	
Surr: Dibromofluoromethane	1.040	0	1	0	104	72.3	129	0	0	0	
Surr: Toluene-d8	1.108	0	1	0	111	74.2	118	0	0	0	

Sample ID: 1303091-001BMS	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013878							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.088	0.10	1	0	109	52.3	155	0	0	0	
1,2-Dichloroethane	1.008	0.10	1	0	101	58.3	144	0	0	0	
2-Butanone	2.012	0.20	2	0	101	39.1	160	0	0	0	
Benzene	1.291	0.10	1	0.2346	106	70	139	0	0	0	
Carbon tetrachloride	0.9592	0.10	1	0	95.9	53.3	147	0	0	0	
Chlorobenzene	0.8724	0.10	1	0	87.2	72.2	132	0	0	0	
Chloroform	1.055	0.10	1	0	106	63.7	135	0	0	0	
Tetrachloroethene	0.8854	0.10	1	0	88.5	70	148	0	0	0	
Trichloroethene	0.9822	0.10	1	0	98.2	67.8	149	0	0	0	
Vinyl chloride	1.070	0.040	1	0	107	46.1	152	0	0	0	
Surr: 4-Bromofluorobenzene	1.085	0	1	0	109	65	129	0	0	0	
Surr: Dibromofluoromethane	1.070	0	1	0	107	72.3	129	0	0	0	
Surr: Toluene-d8	1.145	0	1	0	115	74.2	118	0	0	0	

Sample ID: 1303091-001BDUP	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	30	

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303122

ANALYTICAL QC SUMMARY REPORT

BatchID: 173124

Sample ID: 1303091-001BDUP	Client ID:	Units: mg/L	Prep Date: 03/05/2013	Run No: 239500							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173124	Analysis Date: 03/05/2013	Seq No: 5013502							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2-Butanone	BRL	0.20	0	0	0	0	0	0	0	30	
Benzene	0.2528	0.10	0	0	0	0	0	0.2346	7.47	30	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	30	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	30	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	30	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	30	
Surr: 4-Bromofluorobenzene	0.8914	0	1	0	89.1	65	129	0.8578	0	0	
Surr: Dibromofluoromethane	1.075	0	1	0	107	72.3	129	1.071	0	0	
Surr: Toluene-d8	1.002	0	1	0	100	74.2	118	1.001	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		



March 18, 2013

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway, Northcreek 30
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Cedartown

Dear Andrew Romanek:

Order No: 1303784

Analytical Environmental Services, Inc. received 5 samples on 3/9/2013 10:22:00 AM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Larissa Elslev
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1303784

Date: _____ Page _____ of _____

#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	ANALYSIS REQUESTED		REMARKS	No # of Containers
							PRESCRIPTION (See codes)	RESERVATION (See codes)		
1	MW-53C Soil TDW	3/5/13	1346	X		SO				1
2	MW-53C	3/6/13	0800	X		GW				1
3	MW-54C	3/6/13	0910	X		GW				2
4	MW-54 Purge	3/6/13	0950	X		GW				2
5	MW-71/43 Purge	3/6/13	1015	X		FW				2
6										
7										
8										
9										
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
Jeff Weber	3/7/13 11:07 am	N-C	3-7-13 11:07 am
N/C	3/7/13 100P	Coversey	3/9/13 10:27 AM

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

ADDRESS:	3715 Northside Pkwy #300/400 Atlanta, GA 30327
PHONE:	404-720-1400
FAX:	
SIGNATURE:	Jeff Weber
PROJECT NAME:	Cedartown
PROJECT #:	
SITE ADDRESS:	
SEND REPORT TO:	Andrew Romanak
INVOICE TO:	(IF DIFFERENT FROM ABOVE)
QUOTE #:	
PO#:	

PROJECT INFORMATION	RECEIPT
Total # of Containers	8
Turnaround Time Request	<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other
STATE PROGRAM (if any):	
B-mail? Y/N:	
Fax? Y/N	
DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED 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+1 = Hydrochloric acid + ice I = Ice only N = Nitric acid S+1 = Sulfuric acid + ice S+M+1 = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Client: CDM Smith Inc.

Project: Cedartown

Lab ID: 1303784

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Sample 1303784-002A as received did not meet method specified preservation requirements of pH <2.

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-53C
Project Name: Cedartown	Collection Date: 3/6/2013 8:00:00 AM
Lab ID: 1303784-002	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	173519	1	03/14/2013 18:08	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
2-Butanone	BRL	50		ug/L	173519	1	03/14/2013 18:08	YT
2-Hexanone	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
Acetone	BRL	50		ug/L	173519	1	03/14/2013 18:08	YT
Benzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Bromodichloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Bromoform	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Bromomethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Carbon disulfide	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Carbon tetrachloride	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Chlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Chloroethane	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
Chloroform	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Chloromethane	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Cyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Dibromochloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Dichlorodifluoromethane	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
Ethylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Freon-113	BRL	10		ug/L	173519	1	03/14/2013 18:08	YT
Isopropylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
m,p-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Methyl acetate	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Methylcyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Methylene chloride	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
o-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-53C
Project Name: Cedartown	Collection Date: 3/6/2013 8:00:00 AM
Lab ID: 1303784-002	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	173519	1	03/14/2013 18:08	YT
Tetrachloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Toluene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Trichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:08	YT
Vinyl chloride	BRL	2.0		ug/L	173519	1	03/14/2013 18:08	YT
Surr: 4-Bromofluorobenzene	92.4	64.6-123		%REC	173519	1	03/14/2013 18:08	YT
Surr: Dibromofluoromethane	102	76.6-133		%REC	173519	1	03/14/2013 18:08	YT
Surr: Toluene-d8	101	77.8-120		%REC	173519	1	03/14/2013 18:08	YT

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

Client: CDM Smith Inc.	Client Sample ID: MW-54C
Project Name: Cedartown	Collection Date: 3/6/2013 9:10:00 AM
Lab ID: 1303784-003	Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
2-Butanone	BRL	50		ug/L	173519	1	03/14/2013 18:37	YT
2-Hexanone	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
Acetone	BRL	50		ug/L	173519	1	03/14/2013 18:37	YT
Benzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Bromodichloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Bromoform	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Bromomethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Carbon disulfide	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Carbon tetrachloride	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Chlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Chloroethane	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
Chloroform	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Chloromethane	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Cyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Dibromochloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Dichlorodifluoromethane	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
Ethylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Freon-113	BRL	10		ug/L	173519	1	03/14/2013 18:37	YT
Isopropylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
m,p-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Methyl acetate	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Methylcyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Methylene chloride	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
o-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-54C
Project Name: Cedartown	Collection Date: 3/6/2013 9:10:00 AM
Lab ID: 1303784-003	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	173519	1	03/14/2013 18:37	YT
Tetrachloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Toluene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Trichloroethene	6.8	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173519	1	03/14/2013 18:37	YT
Vinyl chloride	BRL	2.0		ug/L	173519	1	03/14/2013 18:37	YT
Surr: 4-Bromofluorobenzene	94	64.6-123		%REC	173519	1	03/14/2013 18:37	YT
Surr: Dibromofluoromethane	103	76.6-133		%REC	173519	1	03/14/2013 18:37	YT
Surr: Toluene-d8	98.3	77.8-120		%REC	173519	1	03/14/2013 18:37	YT

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

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-54 PURGE
Project Name: Cedartown	Collection Date: 3/6/2013 9:50:00 AM
Lab ID: 1303784-004	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	173519	1	03/14/2013 19:06	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,1-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,1-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
2-Butanone	BRL	50		ug/L	173519	1	03/14/2013 19:06	YT
2-Hexanone	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
Acetone	BRL	50		ug/L	173519	1	03/14/2013 19:06	YT
Benzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Bromodichloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Bromoform	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Bromomethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Carbon disulfide	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Carbon tetrachloride	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Chlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Chloroethane	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
Chloroform	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Chloromethane	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Cyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Dibromochloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Dichlorodifluoromethane	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
Ethylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Freon-113	BRL	10		ug/L	173519	1	03/14/2013 19:06	YT
Isopropylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
m,p-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Methyl acetate	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Methylcyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Methylene chloride	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
o-Xylene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-54 PURGE
Project Name: Cedartown	Collection Date: 3/6/2013 9:50:00 AM
Lab ID: 1303784-004	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	173519	1	03/14/2013 19:06	YT
Tetrachloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Toluene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Trichloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:06	YT
Vinyl chloride	BRL	2.0		ug/L	173519	1	03/14/2013 19:06	YT
Surr: 4-Bromofluorobenzene	87.7	64.6-123		%REC	173519	1	03/14/2013 19:06	YT
Surr: Dibromofluoromethane	108	76.6-133		%REC	173519	1	03/14/2013 19:06	YT
Surr: Toluene-d8	101	77.8-120		%REC	173519	1	03/14/2013 19:06	YT

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

Analytical Environmental Services, Inc

Date: 18-Mar-13

Client: CDM Smith Inc.	Client Sample ID: MW-41/43 PURGE
Project Name: Cedartown	Collection Date: 3/6/2013 10:15:00 AM
Lab ID: 1303784-005	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	173519	1	03/14/2013 19:35	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,1-Dichloroethane	23	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,1-Dichloroethene	34	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2-Dibromoethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2-Dichloroethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,2-Dichloropropane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
2-Butanone	BRL	50		ug/L	173519	1	03/14/2013 19:35	YT
2-Hexanone	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
4-Methyl-2-pentanone	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
Acetone	BRL	50		ug/L	173519	1	03/14/2013 19:35	YT
Benzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Bromodichloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Bromoform	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Bromomethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Carbon disulfide	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Carbon tetrachloride	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Chlorobenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Chloroethane	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
Chloroform	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Chloromethane	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
cis-1,2-Dichloroethene	1400	100		ug/L	173519	20	03/15/2013 14:48	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Cyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Dibromochloromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Dichlorodifluoromethane	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
Ethylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Freon-113	BRL	10		ug/L	173519	1	03/14/2013 19:35	YT
Isopropylbenzene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
m,p-Xylene	15	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Methyl acetate	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Methylcyclohexane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Methylene chloride	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
o-Xylene	14	5.0		ug/L	173519	1	03/14/2013 19:35	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-41/43 PURGE
Project Name: Cedartown	Collection Date: 3/6/2013 10:15:00 AM
Lab ID: 1303784-005	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	173519	1	03/14/2013 19:35	YT
Tetrachloroethene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Toluene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
trans-1,2-Dichloroethene	11	5.0		ug/L	173519	1	03/14/2013 19:35	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Trichloroethene	870	100		ug/L	173519	20	03/15/2013 14:48	YT
Trichlorofluoromethane	BRL	5.0		ug/L	173519	1	03/14/2013 19:35	YT
Vinyl chloride	17	2.0		ug/L	173519	1	03/14/2013 19:35	YT
Surr: 4-Bromofluorobenzene	97.8	64.6-123		%REC	173519	1	03/14/2013 19:35	YT
Surr: 4-Bromofluorobenzene	88.5	64.6-123		%REC	173519	20	03/15/2013 14:48	YT
Surr: Dibromofluoromethane	103	76.6-133		%REC	173519	20	03/15/2013 14:48	YT
Surr: Dibromofluoromethane	108	76.6-133		%REC	173519	1	03/14/2013 19:35	YT
Surr: Toluene-d8	102	77.8-120		%REC	173519	1	03/14/2013 19:35	YT
Surr: Toluene-d8	96	77.8-120		%REC	173519	20	03/15/2013 14:48	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM SMITH

Work Order Number 1303784

Checklist completed by COURTNEY Signature Date 3/9/13

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 3.1 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173514

Sample ID: MB-173514	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: MBLK	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025924							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	0	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	0	
Benzene	BRL	0.10	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	0	
Chloroform	BRL	0.10	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	0.8526	0	1	0	85.3	65	129	0	0	0	
Surr: Dibromofluoromethane	1.050	0	1	0	105	72.3	129	0	0	0	
Surr: Toluene-d8	1.002	0	1	0	100	74.2	118	0	0	0	

Sample ID: LCS-173514	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	0.8970	0.10	1	0	89.7	53	139	0	0	0	
1,2-Dichloroethane	1.002	0.10	1	0	100	62	143	0	0	0	
2-Butanone	1.859	0.20	2	0	93	42	146	0	0	0	
Benzene	1.033	0.10	1	0	103	70.6	128	0	0	0	
Carbon tetrachloride	1.118	0.10	1	0	112	56	146	0	0	0	
Chlorobenzene	0.9608	0.10	1	0	96.1	73	121	0	0	0	
Chloroform	0.9452	0.10	1	0	94.5	64.6	129	0	0	0	
Tetrachloroethene	0.9572	0.10	1	0	95.7	70.5	131	0	0	0	
Trichloroethene	1.019	0.10	1	0	102	69.3	129	0	0	0	

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173514

Sample ID: LCS-173514	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: LCS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025925							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Vinyl chloride	0.8378	0.040	1	0	83.8	46.1	139	0	0	0	
Surr: 4-Bromofluorobenzene	1.018	0	1	0	102	65	129	0	0	0	
Surr: Dibromofluoromethane	1.017	0	1	0	102	72.3	129	0	0	0	
Surr: Toluene-d8	1.056	0	1	0	106	74.2	118	0	0	0	

Sample ID: 1303A95-002AMS	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: MS	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025928							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1.093	0.10	1	0	109	52.3	155	0	0	0	
1,2-Dichloroethane	1.091	0.10	1	0	109	58.3	144	0	0	0	
2-Butanone	2.412	0.20	2	0	121	39.1	160	0	0	0	
Benzene	1.088	0.10	1	0	109	70	139	0	0	0	
Carbon tetrachloride	1.210	0.10	1	0	121	53.3	147	0	0	0	
Chlorobenzene	1.041	0.10	1	0	104	72.2	132	0	0	0	
Chloroform	1.235	0.10	1	0.1512	108	63.7	135	0	0	0	
Tetrachloroethene	1.101	0.10	1	0	110	70	148	0	0	0	
Trichloroethene	1.966	0.10	1	0	197	67.8	149	0	0	0	S
Vinyl chloride	1.239	0.040	1	0	124	46.1	152	0	0	0	
Surr: 4-Bromofluorobenzene	1.103	0	1	0	110	65	129	0	0	0	
Surr: Dibromofluoromethane	1.010	0	1	0	101	72.3	129	0	0	0	
Surr: Toluene-d8	1.044	0	1	0	104	74.2	118	0	0	0	

Sample ID: 1303A95-002ADUP	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	BRL	0.10	0	0	0	0	0	0	0	0	30
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Qualifiers:

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173514

Sample ID: 1303A95-002ADUP	Client ID:	Units: mg/L	Prep Date: 03/14/2013	Run No: 240109							
SampleType: DUP	TestCode: VOLATILES, TCLP SW1311/8260B	BatchID: 173514	Analysis Date: 03/14/2013	Seq No: 5025927							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichloroethane	BRL	0.10	0	0	0	0	0	0	0	30	
2-Butanone	BRL	0.20	0	0	0	0	0	0	0	30	
Benzene	BRL	0.10	0	0	0	0	0	0	0	30	
Carbon tetrachloride	BRL	0.10	0	0	0	0	0	0	0	30	
Chlorobenzene	BRL	0.10	0	0	0	0	0	0	0	30	
Chloroform	0.1290	0.10	0	0	0	0	0	0.1512	15.8	30	
Tetrachloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Trichloroethene	BRL	0.10	0	0	0	0	0	0	0	30	
Vinyl chloride	BRL	0.040	0	0	0	0	0	0	0	30	
Surr: 4-Bromofluorobenzene	1.071	0	1	0	107	65	129	1.052	0	0	
Surr: Dibromofluoromethane	1.024	0	1	0	102	72.3	129	1.119	0	0	
Surr: Toluene-d8	0.9682	0	1	0	96.8	74.2	118	0.9874	0	0	

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173519

Sample ID: MB-173519	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026595							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173519

Sample ID: MB-173519	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026595							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.51	0	50	0	91	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.43	0	50	0	107	76.6	133	0	0	0	
Surr: Toluene-d8	47.43	0	50	0	94.9	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173519

Sample ID: LCS-173519	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026589							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	69.03	5.0	50	0	138	61.1	142	0	0	0	
Benzene	58.68	5.0	50	0	117	73.5	130	0	0	0	
Chlorobenzene	56.50	5.0	50	0	113	72.4	123	0	0	0	
Toluene	57.37	5.0	50	0	115	73.6	130	0	0	0	
Trichloroethene	58.70	5.0	50	0	117	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	48.46	0	50	0	96.9	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.90	0	50	0	108	76.6	133	0	0	0	
Surr: Toluene-d8	50.67	0	50	0	101	77.8	120	0	0	0	

Sample ID: 1303818-001AMS	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026591							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	69.05	5.0	50	0	138	60	168	0	0	0	
Benzene	71.39	5.0	50	12.25	118	66.6	148	0	0	0	
Chlorobenzene	133.0	5.0	50	83.05	99.9	71.9	135	0	0	0	
Toluene	58.96	5.0	50	2.050	114	68	149	0	0	0	
Trichloroethene	90.04	5.0	50	30.53	119	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	47.39	0	50	0	94.8	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.85	0	50	0	108	76.6	133	0	0	0	
Surr: Toluene-d8	48.79	0	50	0	97.6	77.8	120	0	0	0	

Sample ID: 1303818-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026593							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	68.73	5.0	50	0	137	60	168	69.05	0.465	18.6	
Benzene	69.77	5.0	50	12.25	115	66.6	148	71.39	2.3	20	

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1303784

ANALYTICAL QC SUMMARY REPORT

BatchID: 173519

Sample ID: 1303818-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/14/2013	Run No: 240132							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 173519	Analysis Date: 03/14/2013	Seq No: 5026593							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	132.2	5.0	50	83.05	98.3	71.9	135	133.0	0.596	20	
Toluene	57.28	5.0	50	2.050	110	68	149	58.96	2.89	20	
Trichloroethene	87.91	5.0	50	30.53	115	71.1	154	90.04	2.39	20	
Surr: 4-Bromofluorobenzene	46.95	0	50	0	93.9	64.6	123	47.39	0	0	
Surr: Dibromofluoromethane	52.88	0	50	0	106	76.6	133	53.85	0	0	
Surr: Toluene-d8	48.09	0	50	0	96.2	77.8	120	48.79	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	



May 29, 2013

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway, Northcreek 30
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Cedartown

Dear Andrew Romanek:

Order No: 1305M32

Analytical Environmental Services, Inc. received 2 samples on 5/24/2013 5:45:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- 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 09/01/13.

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.

Larissa Elslev
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: **1305M32**

Date: **5-24-13** Page **1** of **1**

COMPANY: CDM Smith PHONE: 404-720-1400 ADDRESS: 3715 Northside Pkwy, NW Bldg 300, Suite 400 Atlanta, GA 30327 FAX: SAMPLED BY: Daniel Forbes SIGNATURE: <i>Daniel Forbes</i>		ANALYSIS REQUESTED TLC WCs/240 PRESERVATION (See codes) HH ✓ GW ✓ W ✓		REMARKS Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers 4	
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)	REMARKS
1	MW-SSD	5/23/13	2:00	X		GW	
2	Trip Blank			X		W	
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
RELINQUISHED BY: 1: Daniel Forbes 5/24/13 1400 2: Daniel Forbes 5/24/13 5:45 3: Daniel Forbes 5/24/13 5:45		RECEIVED BY: 1: U. Tuttle 5/24/13 4:35 2: U. Tuttle 5/24/13 5:45 3: U. Tuttle 5/24/13 5:45		DATE/TIME		PROJECT INFORMATION PROJECT NAME: Cedartown PROJECT #: SITE ADDRESS: SEND REPORT TO: Andrew Remanek INVOICE TO: (IF DIFFERENT FROM ABOVE) QUOTE #: PO#: STATE PROGRAM (if any): None 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		TURNAROUND TIME REQUEST <input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other		Total # of Containers 4	

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

Client: CDM Smith Inc.	Client Sample ID: MW-55D
Project Name: Cedartown	Collection Date: 5/23/2013 9:00:00 PM
Lab ID: 1305M32-001	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	176695	1	05/28/2013 16:53	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,1-Dichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,1-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2-Dibromoethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2-Dichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,2-Dichloropropane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
2-Butanone	BRL	50		ug/L	176695	1	05/28/2013 16:53	YT
2-Hexanone	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
4-Methyl-2-pentanone	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
Acetone	BRL	50		ug/L	176695	1	05/28/2013 16:53	YT
Benzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Bromodichloromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Bromoform	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Bromomethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Carbon disulfide	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Carbon tetrachloride	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Chlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Chloroethane	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
Chloroform	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Chloromethane	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Cyclohexane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Dibromochloromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Dichlorodifluoromethane	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
Ethylbenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Freon-113	BRL	10		ug/L	176695	1	05/28/2013 16:53	YT
Isopropylbenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
m,p-Xylene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Methyl acetate	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Methylcyclohexane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Methylene chloride	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
o-Xylene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: MW-55D
Project Name: Cedartown	Collection Date: 5/23/2013 9:00:00 PM
Lab ID: 1305M32-001	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	176695	1	05/28/2013 16:53	YT
Tetrachloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Toluene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Trichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Trichlorofluoromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:53	YT
Vinyl chloride	BRL	2.0		ug/L	176695	1	05/28/2013 16:53	YT
Surr: 4-Bromofluorobenzene	92.2	64.6-123		%REC	176695	1	05/28/2013 16:53	YT
Surr: Dibromofluoromethane	94.5	76.6-133		%REC	176695	1	05/28/2013 16:53	YT
Surr: Toluene-d8	95.2	77.8-120		%REC	176695	1	05/28/2013 16:53	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Cedartown	Collection Date: 5/24/2013
Lab ID: 1305M32-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,1,2-Trichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,1-Dichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,1-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2-Dibromoethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2-Dichloroethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,2-Dichloropropane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,3-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
1,4-Dichlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
2-Butanone	BRL	50		ug/L	176695	1	05/28/2013 16:25	YT
2-Hexanone	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
4-Methyl-2-pentanone	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
Acetone	BRL	50		ug/L	176695	1	05/28/2013 16:25	YT
Benzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Bromodichloromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Bromoform	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Bromomethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Carbon disulfide	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Carbon tetrachloride	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Chlorobenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Chloroethane	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
Chloroform	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Chloromethane	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
cis-1,2-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
cis-1,3-Dichloropropene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Cyclohexane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Dibromochloromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Dichlorodifluoromethane	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
Ethylbenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Freon-113	BRL	10		ug/L	176695	1	05/28/2013 16:25	YT
Isopropylbenzene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
m,p-Xylene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Methyl acetate	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Methyl tert-butyl ether	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Methylcyclohexane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Methylene chloride	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
o-Xylene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT

Qualifiers:

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

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

Client: CDM Smith Inc.	Client Sample ID: TRIP BLANK
Project Name: Cedartown	Collection Date: 5/24/2013
Lab ID: 1305M32-002	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Tetrachloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Toluene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
trans-1,2-Dichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
trans-1,3-Dichloropropene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Trichloroethene	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Trichlorofluoromethane	BRL	5.0		ug/L	176695	1	05/28/2013 16:25	YT
Vinyl chloride	BRL	2.0		ug/L	176695	1	05/28/2013 16:25	YT
Surr: 4-Bromofluorobenzene	92.7	64.6-123		%REC	176695	1	05/28/2013 16:25	YT
Surr: Dibromofluoromethane	95	76.6-133		%REC	176695	1	05/28/2013 16:25	YT
Surr: Toluene-d8	96.5	77.8-120		%REC	176695	1	05/28/2013 16:25	YT

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client CDM Smith

Work Order Number 1305M32

Checklist completed by [Signature] Date 5/25/13

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 3.3 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler#5 _____ Cooler #6 _____

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Was TAT marked on the COC? Yes No

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

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

Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1305M32

ANALYTICAL QC SUMMARY REPORT

BatchID: 176695

Sample ID: MB-176695	Client ID:	Units: ug/L	Prep Date: 05/28/2013	Run No: 244839
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176695	Analysis Date: 05/28/2013	Seq No: 5127510

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	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	0
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	0
Acetone	BRL	50	0	0	0	0	0	0	0	0	0
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	0
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	0
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	0
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	0
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	0

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1305M32

ANALYTICAL QC SUMMARY REPORT

BatchID: 176695

Sample ID: MB-176695	Client ID:	Units: ug/L	Prep Date: 05/28/2013	Run No: 244839							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176695	Analysis Date: 05/28/2013	Seq No: 5127510							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	45.91	0	50.00	0	91.8	64.6	123	0	0	0	
Surr: Dibromofluoromethane	47.46	0	50.00	0	94.9	76.6	133	0	0	0	
Surr: Toluene-d8	48.35	0	50.00	0	96.7	77.8	120	0	0	0	

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

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1305M32

ANALYTICAL QC SUMMARY REPORT

BatchID: 176695

Sample ID: LCS-176695	Client ID:	Units: ug/L	Prep Date: 05/28/2013	Run No: 244839							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176695	Analysis Date: 05/28/2013	Seq No: 5127508							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	48.38	5.0	50.00	0	96.8	61.1	142	0	0	0	
Benzene	48.75	5.0	50.00	0	97.5	73.5	130	0	0	0	
Chlorobenzene	49.84	5.0	50.00	0	99.7	72.4	123	0	0	0	
Toluene	51.09	5.0	50.00	0	102	73.6	130	0	0	0	
Trichloroethene	48.60	5.0	50.00	0	97.2	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	51.32	0	50.00	0	103	64.6	123	0	0	0	
Surr: Dibromofluoromethane	49.48	0	50.00	0	99.0	76.6	133	0	0	0	
Surr: Toluene-d8	48.47	0	50.00	0	96.9	77.8	120	0	0	0	

Sample ID: 1305M32-001AMS	Client ID: MW-55D	Units: ug/L	Prep Date: 05/28/2013	Run No: 244839							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176695	Analysis Date: 05/28/2013	Seq No: 5127758							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.30	5.0	50.00	0	107	60	168	0	0	0	
Benzene	56.90	5.0	50.00	0	114	66.6	148	0	0	0	
Chlorobenzene	55.10	5.0	50.00	0	110	71.9	135	0	0	0	
Toluene	59.82	5.0	50.00	0	120	68	149	0	0	0	
Trichloroethene	59.03	5.0	50.00	1.780	114	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	52.39	0	50.00	0	105	64.6	123	0	0	0	
Surr: Dibromofluoromethane	45.42	0	50.00	0	90.8	76.6	133	0	0	0	
Surr: Toluene-d8	47.21	0	50.00	0	94.4	77.8	120	0	0	0	

Sample ID: 1305M32-001AMSD	Client ID: MW-55D	Units: ug/L	Prep Date: 05/28/2013	Run No: 244839							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 176695	Analysis Date: 05/28/2013	Seq No: 5127759							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.40	5.0	50.00	0	105	60	168	53.30	1.70	18.6	
Benzene	56.23	5.0	50.00	0	112	66.6	148	56.90	1.18	20	

Qualifiers:

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1305M32

ANALYTICAL QC SUMMARY REPORT

BatchID: 176695

Sample ID: 1305M32-001AMSD Client ID: MW-55D Units: ug/L Prep Date: 05/28/2013 Run No: 244839
 SampleType: MSD TestCode: TCL VOLATILE ORGANICS SW8260B BatchID: 176695 Analysis Date: 05/28/2013 Seq No: 5127759

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	51.57	5.0	50.00	0	103	71.9	135	55.10	6.62	20	
Toluene	57.11	5.0	50.00	0	114	68	149	59.82	4.64	20	
Trichloroethene	56.81	5.0	50.00	1.780	110	71.1	154	59.03	3.83	20	
Surr: 4-Bromofluorobenzene	49.88	0	50.00	0	99.8	64.6	123	52.39	0	0	
Surr: Dibromofluoromethane	48.40	0	50.00	0	96.8	76.6	133	45.42	0	0	
Surr: Toluene-d8	47.85	0	50.00	0	95.7	77.8	120	47.21	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

Appendix C

Soil Laboratory Report



May 31, 2013

Andrew Romanek
CDM Smith Inc.
3715 Northside Parkway, Northcreek 30
Atlanta GA 30327

TEL: (404) 720-1400
FAX: (404) 467-4130

RE: Cedartown

Dear Andrew Romanek:

Order No: 1305M03

Analytical Environmental Services, Inc. received 11 samples on 5/23/2013 5:51:00 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 07/01/12-06/30/13.
- 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 09/01/13.

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.

Larissa Elslev
Project Manager

Analytical Environmental Services, Inc

Date: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-13-1
Project Name: Cedartown	Collection Date: 5/22/2013 9:55:00 AM
Lab ID: 1305M03-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Chromium	157	2.80		mg/Kg-dry	176745	1	05/31/2013 09:47	MR
PERCENT MOISTURE D2216								
Percent Moisture	15.5	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-13-6
Project Name: Cedartown	Collection Date: 5/22/2013 10:25:00 AM
Lab ID: 1305M03-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Chromium	64.1	2.75		mg/Kg-dry	176745	1	05/31/2013 09:51	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-11-1
Project Name: Cedartown	Collection Date: 5/22/2013 10:40:00 AM
Lab ID: 1305M03-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Chromium	135	2.74		mg/Kg-dry	176745	1	05/31/2013 09:55	MR
PERCENT MOISTURE D2216								
Percent Moisture	9.52	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-11-6
Project Name: Cedartown	Collection Date: 5/22/2013 10:50:00 AM
Lab ID: 1305M03-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.73		mg/Kg-dry	176745	1	05/31/2013 09:59	MR
Lead	31.6	5.47		mg/Kg-dry	176745	1	05/31/2013 09:59	MR
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-12-1
Project Name: Cedartown	Collection Date: 5/22/2013 11:35:00 AM
Lab ID: 1305M03-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Chromium	73.3	2.71		mg/Kg-dry	176745	1	05/31/2013 10:03	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-14-1
Project Name: Cedartown	Collection Date: 5/22/2013 11:55:00 AM
Lab ID: 1305M03-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.67		mg/Kg-dry	176745	1	05/31/2013 10:09	MR
Chromium	62.7	2.67		mg/Kg-dry	176745	1	05/31/2013 10:09	MR
Lead	66.8	5.34		mg/Kg-dry	176745	1	05/31/2013 10:09	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.9	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-15-1
Project Name: Cedartown	Collection Date: 5/22/2013 12:10:00 PM
Lab ID: 1305M03-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.64		mg/Kg-dry	176745	1	05/31/2013 10:20	MR
Chromium	125	2.64		mg/Kg-dry	176745	1	05/31/2013 10:20	MR
Lead	70.3	5.28		mg/Kg-dry	176745	1	05/31/2013 10:20	MR
PERCENT MOISTURE D2216								
Percent Moisture	11.3	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-16-1
Project Name: Cedartown	Collection Date: 5/22/2013 1:30:00 PM
Lab ID: 1305M03-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.90		mg/Kg-dry	176745	1	05/31/2013 10:24	MR
Chromium	31.7	2.90		mg/Kg-dry	176745	1	05/31/2013 10:24	MR
Lead	34.8	5.81		mg/Kg-dry	176745	1	05/31/2013 10:24	MR
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-10-1
Project Name: Cedartown	Collection Date: 5/22/2013 1:45:00 PM
Lab ID: 1305M03-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Chromium	48.3	3.05		mg/Kg-dry	176745	1	05/31/2013 10:28	MR
PERCENT MOISTURE D2216								
Percent Moisture	21.2	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-17-1
Project Name: Cedartown	Collection Date: 5/22/2013 2:00:00 PM
Lab ID: 1305M03-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.77		mg/Kg-dry	176745	1	05/31/2013 10:32	MR
Chromium	41.3	2.77		mg/Kg-dry	176745	1	05/31/2013 10:32	MR
Lead	44.5	5.54		mg/Kg-dry	176745	1	05/31/2013 10:32	MR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R245020	1	05/30/2013 08:30	DM

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: 31-May-13

Client: CDM Smith Inc.	Client Sample ID: SB-18-1
Project Name: Cedartown	Collection Date: 5/22/2013 2:20:00 PM
Lab ID: 1305M03-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010C					(SW3050B)			
Cadmium	BRL	2.87		mg/Kg-dry	176745	1	05/30/2013 12:23	MR
Chromium	63.4	2.87		mg/Kg-dry	176745	1	05/30/2013 12:23	MR
Lead	47.9	5.74		mg/Kg-dry	176745	1	05/30/2013 12:23	MR
PERCENT MOISTURE D2216								
Percent Moisture	17.7	0		wt%	R245020	1	05/30/2013 08:30	DM

Qualifiers:

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

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

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EDM Smith

Work Order Number 1305M03

Checklist completed by [Signature] 5/24/13
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 4.0 Cooler #2 _____ Cooler #3 _____ Cooler #4 _____ Cooler #5 _____ Cooler #6 _____

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

Adjusted? _____ Checked by _____

Sample Condition: Good Other(Explain) _____

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

See Case Narrative for resolution of the Non-Conformance.

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

Client: CDM Smith Inc.
 Project Name: Cedartown
 Workorder: 1305M03

ANALYTICAL QC SUMMARY REPORT

BatchID: 176745

Sample ID: MB-176745	Client ID:	Units: mg/Kg	Prep Date: 05/29/2013	Run No: 244983							
SampleType: MBLK	TestCode: METALS, TOTAL SW6010C	BatchID: 176745	Analysis Date: 05/30/2013	Seq No: 5130150							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	BRL	2.50	0	0	0	0	0	0	0	0	
Chromium	BRL	2.50	0	0	0	0	0	0	0	0	
Lead	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-176745	Client ID:	Units: mg/Kg	Prep Date: 05/29/2013	Run No: 244983							
SampleType: LCS	TestCode: METALS, TOTAL SW6010C	BatchID: 176745	Analysis Date: 05/30/2013	Seq No: 5130149							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	49.32	2.50	50.00	0	98.6	80	120	0	0	0	
Chromium	51.81	2.50	50.00	0.09700	103	80	120	0	0	0	
Lead	49.26	5.00	50.00	0	98.5	80	120	0	0	0	

Sample ID: 1305M03-011AMS	Client ID: SB-18-1	Units: mg/Kg-dry	Prep Date: 05/29/2013	Run No: 244983							
SampleType: MS	TestCode: METALS, TOTAL SW6010C	BatchID: 176745	Analysis Date: 05/30/2013	Seq No: 5130153							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	51.95	2.89	57.72	0.2273	89.6	75	125	0	0	0	
Chromium	105.4	2.89	57.72	63.41	72.8	75	125	0	0	0	S
Lead	112.5	5.77	57.72	47.90	112	75	125	0	0	0	

Sample ID: 1305M03-011AMSD	Client ID: SB-18-1	Units: mg/Kg-dry	Prep Date: 05/29/2013	Run No: 244983							
SampleType: MSD	TestCode: METALS, TOTAL SW6010C	BatchID: 176745	Analysis Date: 05/30/2013	Seq No: 5130154							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Cadmium	52.11	2.89	57.77	0.2273	89.8	75	125	51.95	0.307	20	
Chromium	99.57	2.89	57.77	63.41	62.6	75	125	105.4	5.71	20	S
Lead	88.99	5.78	57.77	47.90	71.1	75	125	112.5	23.3	20	SR

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

Appendix D

Soil Gas Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-16520-1
Client Project/Site: Cedartown

For:
CDM Smith, Inc.
3715 Northside Parkway, NW
Building 300, Suite 400
Atlanta, Georgia 30327

Attn: Andrew P Romanek, P.E.



Authorized for release by:
5/29/2013 7:08:53 AM

Don Dawicki, Customer Service Manager
don.dawicki@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.

Glossary

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

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Job ID: 200-16520-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: CDM Smith, Inc.

Project: Cedartown

Report Number: 200-16520-1

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

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2013; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SG-1, SG-2 and SG-3 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 05/22/2013.

Methylene Chloride and n-Hexane were detected in method blank MB 200-55927/4 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The analysis for sample SG-3 yielded concentrations of Acetone and Butane that exceeded the range of calibrated instrument response. With the client's permission, an additional dilution analysis was not performed, in order to provide for lower reporting limits for the remaining target analytes. The results for these compounds have been qualified with the "E" qualifier.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Lab Sample ID: 200-16520-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	7.3		5.0	0.22	ppb v/v	10		TO-15	Total/NA
Acetone	19	J	50	4.0	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	4.2	J	50	0.76	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	0.79	J	5.0	0.20	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	0.86	J B	5.0	0.23	ppb v/v	10		TO-15	Total/NA
n-Hexane	1.8	J B	2.0	0.20	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	5.5		5.0	0.25	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	1.8	J	2.0	0.84	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	1.8	J	2.0	0.23	ppb v/v	10		TO-15	Total/NA
Benzene	0.88	J	2.0	0.18	ppb v/v	10		TO-15	Total/NA
n-Heptane	1.3	J	2.0	0.17	ppb v/v	10		TO-15	Total/NA
methyl isobutyl ketone	0.65	J	5.0	0.34	ppb v/v	10		TO-15	Total/NA
Toluene	6.8		2.0	0.14	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	0.27	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.60	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	1.8	J	5.0	0.22	ppb v/v	10		TO-15	Total/NA
Xylene, o-	0.62	J	2.0	0.16	ppb v/v	10		TO-15	Total/NA
Xylene (total)	2.4		2.0	0.16	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.72	J	2.0	0.21	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	17		12	0.52	ug/m3	10		TO-15	Total/NA
Acetone	46	J	120	9.5	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	10	J	120	1.9	ug/m3	10		TO-15	Total/NA
Carbon disulfide	2.5	J	16	0.62	ug/m3	10		TO-15	Total/NA
Methylene Chloride	3.0	J B	17	0.80	ug/m3	10		TO-15	Total/NA
n-Hexane	6.4	J B	7.0	0.70	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	16		15	0.74	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	7.2	J	7.9	3.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	7.2	J	7.9	0.91	ug/m3	10		TO-15	Total/NA
Benzene	2.8	J	6.4	0.58	ug/m3	10		TO-15	Total/NA
n-Heptane	5.3	J	8.2	0.70	ug/m3	10		TO-15	Total/NA
methyl isobutyl ketone	2.6	J	20	1.4	ug/m3	10		TO-15	Total/NA
Toluene	26		7.5	0.53	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	1.8	J	14	1.0	ug/m3	10		TO-15	Total/NA
Ethylbenzene	2.6	J	8.7	0.65	ug/m3	10		TO-15	Total/NA
m,p-Xylene	7.8	J	22	0.96	ug/m3	10		TO-15	Total/NA
Xylene, o-	2.7	J	8.7	0.69	ug/m3	10		TO-15	Total/NA
Xylene (total)	10		8.7	0.69	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.5	J	9.8	1.0	ug/m3	10		TO-15	Total/NA

Client Sample ID: SG-2

Lab Sample ID: 200-16520-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	4.6	J	5.0	0.22	ppb v/v	10		TO-15	Total/NA
Acetone	17	J	50	4.0	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	8.1		5.0	0.20	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	0.77	J B	5.0	0.23	ppb v/v	10		TO-15	Total/NA
n-Hexane	1.1	J B	2.0	0.20	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	4.2	J	5.0	0.25	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	1.5	J	2.0	0.84	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-2 (Continued)

Lab Sample ID: 200-16520-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1.5	J	2.0	0.23	ppb v/v	10		TO-15	Total/NA
1,1,1-Trichloroethane	1.4	J	2.0	0.20	ppb v/v	10		TO-15	Total/NA
Benzene	0.98	J	2.0	0.18	ppb v/v	10		TO-15	Total/NA
n-Heptane	0.89	J	2.0	0.17	ppb v/v	10		TO-15	Total/NA
Trichloroethene	0.65	J	2.0	0.092	ppb v/v	10		TO-15	Total/NA
methyl isobutyl ketone	4.2	J	5.0	0.34	ppb v/v	10		TO-15	Total/NA
Toluene	8.8		2.0	0.14	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	0.25	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	1.2	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	4.6	J	5.0	0.22	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.7	J	2.0	0.16	ppb v/v	10		TO-15	Total/NA
Xylene (total)	6.3		2.0	0.16	ppb v/v	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.56	J	2.0	0.19	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.8	J	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	11	J	12	0.52	ug/m3	10		TO-15	Total/NA
Acetone	41	J	120	9.5	ug/m3	10		TO-15	Total/NA
Carbon disulfide	25		16	0.62	ug/m3	10		TO-15	Total/NA
Methylene Chloride	2.7	J B	17	0.80	ug/m3	10		TO-15	Total/NA
n-Hexane	3.9	J B	7.0	0.70	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	12	J	15	0.74	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	5.9	J	7.9	3.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	5.9	J	7.9	0.91	ug/m3	10		TO-15	Total/NA
1,1,1-Trichloroethane	7.8	J	11	1.1	ug/m3	10		TO-15	Total/NA
Benzene	3.1	J	6.4	0.58	ug/m3	10		TO-15	Total/NA
n-Heptane	3.7	J	8.2	0.70	ug/m3	10		TO-15	Total/NA
Trichloroethene	3.5	J	11	0.49	ug/m3	10		TO-15	Total/NA
methyl isobutyl ketone	17	J	20	1.4	ug/m3	10		TO-15	Total/NA
Toluene	33		7.5	0.53	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	1.7	J	14	1.0	ug/m3	10		TO-15	Total/NA
Ethylbenzene	5.1	J	8.7	0.65	ug/m3	10		TO-15	Total/NA
m,p-Xylene	20	J	22	0.96	ug/m3	10		TO-15	Total/NA
Xylene, o-	7.2	J	8.7	0.69	ug/m3	10		TO-15	Total/NA
Xylene (total)	27		8.7	0.69	ug/m3	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.7	J	9.8	0.93	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	8.7	J	9.8	1.0	ug/m3	10		TO-15	Total/NA

Client Sample ID: SG-3

Lab Sample ID: 200-16520-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	1000	E	5.0	0.22	ppb v/v	10		TO-15	Total/NA
Acetone	410	E	50	4.0	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	26	J	50	0.76	ppb v/v	10		TO-15	Total/NA
Carbon disulfide	1.2	J	5.0	0.20	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	1.1	J B	5.0	0.23	ppb v/v	10		TO-15	Total/NA
tert-Butyl alcohol	21	J	50	0.41	ppb v/v	10		TO-15	Total/NA
n-Hexane	78	B	2.0	0.20	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	17		5.0	0.25	ppb v/v	10		TO-15	Total/NA
cis-1,2-Dichloroethene	1.3	J	2.0	0.84	ppb v/v	10		TO-15	Total/NA
1,2-Dichloroethene, Total	1.3	J	2.0	0.23	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-3 (Continued)

Lab Sample ID: 200-16520-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.59	J	2.0	0.20	ppb v/v	10		TO-15	Total/NA
Cyclohexane	21		2.0	0.19	ppb v/v	10		TO-15	Total/NA
Benzene	77		2.0	0.18	ppb v/v	10		TO-15	Total/NA
n-Heptane	26		2.0	0.17	ppb v/v	10		TO-15	Total/NA
methyl isobutyl ketone	4.9	J	5.0	0.34	ppb v/v	10		TO-15	Total/NA
Toluene	12		2.0	0.14	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	0.23	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	2.2	J	5.0	0.40	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.88	J	2.0	0.15	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	3.6	J	5.0	0.22	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.1	J	2.0	0.16	ppb v/v	10		TO-15	Total/NA
Xylene (total)	4.7		2.0	0.16	ppb v/v	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.51	J	2.0	0.19	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.5	J	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Butane	2500	E	12	0.52	ug/m3	10		TO-15	Total/NA
Acetone	970	E	120	9.5	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	64	J	120	1.9	ug/m3	10		TO-15	Total/NA
Carbon disulfide	3.8	J	16	0.62	ug/m3	10		TO-15	Total/NA
Methylene Chloride	3.8	J B	17	0.80	ug/m3	10		TO-15	Total/NA
tert-Butyl alcohol	63	J	150	1.2	ug/m3	10		TO-15	Total/NA
n-Hexane	280	B	7.0	0.70	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	49		15	0.74	ug/m3	10		TO-15	Total/NA
cis-1,2-Dichloroethene	5.1	J	7.9	3.3	ug/m3	10		TO-15	Total/NA
1,2-Dichloroethene, Total	5.1	J	7.9	0.91	ug/m3	10		TO-15	Total/NA
1,1,1-Trichloroethane	3.2	J	11	1.1	ug/m3	10		TO-15	Total/NA
Cyclohexane	73		6.9	0.65	ug/m3	10		TO-15	Total/NA
Benzene	250		6.4	0.58	ug/m3	10		TO-15	Total/NA
n-Heptane	110		8.2	0.70	ug/m3	10		TO-15	Total/NA
methyl isobutyl ketone	20	J	20	1.4	ug/m3	10		TO-15	Total/NA
Toluene	45		7.5	0.53	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	1.5	J	14	1.0	ug/m3	10		TO-15	Total/NA
Methyl Butyl Ketone (2-Hexanone)	9.1	J	20	1.6	ug/m3	10		TO-15	Total/NA
Ethylbenzene	3.8	J	8.7	0.65	ug/m3	10		TO-15	Total/NA
m,p-Xylene	16	J	22	0.96	ug/m3	10		TO-15	Total/NA
Xylene, o-	4.9	J	8.7	0.69	ug/m3	10		TO-15	Total/NA
Xylene (total)	20		8.7	0.69	ug/m3	10		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.5	J	9.8	0.93	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	7.5	J	9.8	1.0	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Lab Sample ID: 200-16520-1

Date Collected: 05/15/13 10:52

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.20	ppb v/v			05/22/13 15:31	10
Freon 22	5.0	U	5.0	0.23	ppb v/v			05/22/13 15:31	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.20	ppb v/v			05/22/13 15:31	10
Chloromethane	5.0	U	5.0	0.34	ppb v/v			05/22/13 15:31	10
n-Butane	7.3		5.0	0.22	ppb v/v			05/22/13 15:31	10
Vinyl chloride	2.0	U	2.0	0.091	ppb v/v			05/22/13 15:31	10
1,3-Butadiene	2.0	U	2.0	0.25	ppb v/v			05/22/13 15:31	10
Bromomethane	2.0	U	2.0	0.27	ppb v/v			05/22/13 15:31	10
Chloroethane	5.0	U	5.0	0.33	ppb v/v			05/22/13 15:31	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.19	ppb v/v			05/22/13 15:31	10
Trichlorofluoromethane	2.0	U	2.0	0.21	ppb v/v			05/22/13 15:31	10
Freon TF	2.0	U	2.0	0.20	ppb v/v			05/22/13 15:31	10
1,1-Dichloroethene	2.0	U	2.0	0.86	ppb v/v			05/22/13 15:31	10
Acetone	19	J	50	4.0	ppb v/v			05/22/13 15:31	10
Isopropyl alcohol	4.2	J	50	0.76	ppb v/v			05/22/13 15:31	10
Carbon disulfide	0.79	J	5.0	0.20	ppb v/v			05/22/13 15:31	10
3-Chloropropene	5.0	U	5.0	0.47	ppb v/v			05/22/13 15:31	10
Methylene Chloride	0.86	J B	5.0	0.23	ppb v/v			05/22/13 15:31	10
tert-Butyl alcohol	50	U	50	0.41	ppb v/v			05/22/13 15:31	10
Methyl tert-butyl ether	2.0	U	2.0	0.15	ppb v/v			05/22/13 15:31	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/22/13 15:31	10
n-Hexane	1.8	J B	2.0	0.20	ppb v/v			05/22/13 15:31	10
1,1-Dichloroethane	2.0	U	2.0	0.23	ppb v/v			05/22/13 15:31	10
Methyl Ethyl Ketone	5.5		5.0	0.25	ppb v/v			05/22/13 15:31	10
cis-1,2-Dichloroethene	1.8	J	2.0	0.84	ppb v/v			05/22/13 15:31	10
1,2-Dichloroethene, Total	1.8	J	2.0	0.23	ppb v/v			05/22/13 15:31	10
Chloroform	2.0	U	2.0	0.24	ppb v/v			05/22/13 15:31	10
Tetrahydrofuran	50	U	50	0.29	ppb v/v			05/22/13 15:31	10
1,1,1-Trichloroethane	2.0	U	2.0	0.20	ppb v/v			05/22/13 15:31	10
Cyclohexane	2.0	U	2.0	0.19	ppb v/v			05/22/13 15:31	10
Carbon tetrachloride	2.0	U	2.0	0.13	ppb v/v			05/22/13 15:31	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.15	ppb v/v			05/22/13 15:31	10
Benzene	0.88	J	2.0	0.18	ppb v/v			05/22/13 15:31	10
1,2-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			05/22/13 15:31	10
n-Heptane	1.3	J	2.0	0.17	ppb v/v			05/22/13 15:31	10
Trichloroethene	2.0	U	2.0	0.092	ppb v/v			05/22/13 15:31	10
Methyl methacrylate	5.0	U	5.0	0.16	ppb v/v			05/22/13 15:31	10
1,2-Dichloropropane	2.0	U	2.0	0.23	ppb v/v			05/22/13 15:31	10
1,4-Dioxane	50	U	50	0.70	ppb v/v			05/22/13 15:31	10
Bromodichloromethane	2.0	U	2.0	0.12	ppb v/v			05/22/13 15:31	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.13	ppb v/v			05/22/13 15:31	10
methyl isobutyl ketone	0.65	J	5.0	0.34	ppb v/v			05/22/13 15:31	10
Toluene	6.8		2.0	0.14	ppb v/v			05/22/13 15:31	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.15	ppb v/v			05/22/13 15:31	10
1,1,2-Trichloroethane	2.0	U	2.0	0.16	ppb v/v			05/22/13 15:31	10
Tetrachloroethene	0.27	J	2.0	0.15	ppb v/v			05/22/13 15:31	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.40	ppb v/v			05/22/13 15:31	10
Dibromochloromethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 15:31	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Lab Sample ID: 200-16520-1

Date Collected: 05/15/13 10:52

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	2.0	U	2.0	0.14	ppb v/v			05/22/13 15:31	10
Chlorobenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 15:31	10
Ethylbenzene	0.60	J	2.0	0.15	ppb v/v			05/22/13 15:31	10
m,p-Xylene	1.8	J	5.0	0.22	ppb v/v			05/22/13 15:31	10
Xylene, o-	0.62	J	2.0	0.16	ppb v/v			05/22/13 15:31	10
Xylene (total)	2.4		2.0	0.16	ppb v/v			05/22/13 15:31	10
Styrene	2.0	U	2.0	0.11	ppb v/v			05/22/13 15:31	10
Bromoform	2.0	U	2.0	0.072	ppb v/v			05/22/13 15:31	10
Cumene	2.0	U	2.0	0.11	ppb v/v			05/22/13 15:31	10
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 15:31	10
n-Propylbenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 15:31	10
4-Ethyltoluene	2.0	U	2.0	0.15	ppb v/v			05/22/13 15:31	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.19	ppb v/v			05/22/13 15:31	10
2-Chlorotoluene	2.0	U	2.0	0.13	ppb v/v			05/22/13 15:31	10
tert-Butylbenzene	2.0	U	2.0	0.11	ppb v/v			05/22/13 15:31	10
1,2,4-Trimethylbenzene	0.72	J	2.0	0.21	ppb v/v			05/22/13 15:31	10
sec-Butylbenzene	2.0	U	2.0	0.15	ppb v/v			05/22/13 15:31	10
4-Isopropyltoluene	2.0	U	2.0	0.20	ppb v/v			05/22/13 15:31	10
1,3-Dichlorobenzene	2.0	U	2.0	0.19	ppb v/v			05/22/13 15:31	10
1,4-Dichlorobenzene	2.0	U	2.0	0.18	ppb v/v			05/22/13 15:31	10
Benzyl chloride	2.0	U	2.0	0.22	ppb v/v			05/22/13 15:31	10
n-Butylbenzene	2.0	U	2.0	0.22	ppb v/v			05/22/13 15:31	10
1,2-Dichlorobenzene	2.0	U	2.0	0.26	ppb v/v			05/22/13 15:31	10
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ppb v/v			05/22/13 15:31	10
Hexachlorobutadiene	2.0	U	2.0	0.29	ppb v/v			05/22/13 15:31	10
Naphthalene	5.0	U	5.0	0.38	ppb v/v			05/22/13 15:31	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	0.99	ug/m3			05/22/13 15:31	10
Freon 22	18	U	18	0.81	ug/m3			05/22/13 15:31	10
1,2-Dichlorotetrafluoroethane	14	U	14	1.4	ug/m3			05/22/13 15:31	10
Chloromethane	10	U	10	0.70	ug/m3			05/22/13 15:31	10
n-Butane	17		12	0.52	ug/m3			05/22/13 15:31	10
Vinyl chloride	5.1	U	5.1	0.23	ug/m3			05/22/13 15:31	10
1,3-Butadiene	4.4	U	4.4	0.55	ug/m3			05/22/13 15:31	10
Bromomethane	7.8	U	7.8	1.0	ug/m3			05/22/13 15:31	10
Chloroethane	13	U	13	0.87	ug/m3			05/22/13 15:31	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.83	ug/m3			05/22/13 15:31	10
Trichlorofluoromethane	11	U	11	1.2	ug/m3			05/22/13 15:31	10
Freon TF	15	U	15	1.5	ug/m3			05/22/13 15:31	10
1,1-Dichloroethene	7.9	U	7.9	3.4	ug/m3			05/22/13 15:31	10
Acetone	46	J	120	9.5	ug/m3			05/22/13 15:31	10
Isopropyl alcohol	10	J	120	1.9	ug/m3			05/22/13 15:31	10
Carbon disulfide	2.5	J	16	0.62	ug/m3			05/22/13 15:31	10
3-Chloropropene	16	U	16	1.5	ug/m3			05/22/13 15:31	10
Methylene Chloride	3.0	J B	17	0.80	ug/m3			05/22/13 15:31	10
tert-Butyl alcohol	150	U	150	1.2	ug/m3			05/22/13 15:31	10
Methyl tert-butyl ether	7.2	U	7.2	0.54	ug/m3			05/22/13 15:31	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/22/13 15:31	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Lab Sample ID: 200-16520-1

Date Collected: 05/15/13 10:52

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Hexane	6.4	J B	7.0	0.70	ug/m3			05/22/13 15:31	10
1,1-Dichloroethane	8.1	U	8.1	0.93	ug/m3			05/22/13 15:31	10
Methyl Ethyl Ketone	16		15	0.74	ug/m3			05/22/13 15:31	10
cis-1,2-Dichloroethene	7.2	J	7.9	3.3	ug/m3			05/22/13 15:31	10
1,2-Dichloroethene, Total	7.2	J	7.9	0.91	ug/m3			05/22/13 15:31	10
Chloroform	9.8	U	9.8	1.2	ug/m3			05/22/13 15:31	10
Tetrahydrofuran	150	U	150	0.86	ug/m3			05/22/13 15:31	10
1,1,1-Trichloroethane	11	U	11	1.1	ug/m3			05/22/13 15:31	10
Cyclohexane	6.9	U	6.9	0.65	ug/m3			05/22/13 15:31	10
Carbon tetrachloride	13	U	13	0.82	ug/m3			05/22/13 15:31	10
2,2,4-Trimethylpentane	9.3	U	9.3	0.70	ug/m3			05/22/13 15:31	10
Benzene	2.8	J	6.4	0.58	ug/m3			05/22/13 15:31	10
1,2-Dichloroethane	8.1	U	8.1	0.73	ug/m3			05/22/13 15:31	10
n-Heptane	5.3	J	8.2	0.70	ug/m3			05/22/13 15:31	10
Trichloroethene	11	U	11	0.49	ug/m3			05/22/13 15:31	10
Methyl methacrylate	20	U	20	0.66	ug/m3			05/22/13 15:31	10
1,2-Dichloropropane	9.2	U	9.2	1.1	ug/m3			05/22/13 15:31	10
1,4-Dioxane	180	U	180	2.5	ug/m3			05/22/13 15:31	10
Bromodichloromethane	13	U	13	0.80	ug/m3			05/22/13 15:31	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.59	ug/m3			05/22/13 15:31	10
methyl isobutyl ketone	2.6	J	20	1.4	ug/m3			05/22/13 15:31	10
Toluene	26		7.5	0.53	ug/m3			05/22/13 15:31	10
trans-1,3-Dichloropropene	9.1	U	9.1	0.68	ug/m3			05/22/13 15:31	10
1,1,2-Trichloroethane	11	U	11	0.87	ug/m3			05/22/13 15:31	10
Tetrachloroethene	1.8	J	14	1.0	ug/m3			05/22/13 15:31	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	1.6	ug/m3			05/22/13 15:31	10
Dibromochloromethane	17	U	17	0.94	ug/m3			05/22/13 15:31	10
1,2-Dibromoethane	15	U	15	1.1	ug/m3			05/22/13 15:31	10
Chlorobenzene	9.2	U	9.2	0.60	ug/m3			05/22/13 15:31	10
Ethylbenzene	2.6	J	8.7	0.65	ug/m3			05/22/13 15:31	10
m,p-Xylene	7.8	J	22	0.96	ug/m3			05/22/13 15:31	10
Xylene, o-	2.7	J	8.7	0.69	ug/m3			05/22/13 15:31	10
Xylene (total)	10		8.7	0.69	ug/m3			05/22/13 15:31	10
Styrene	8.5	U	8.5	0.47	ug/m3			05/22/13 15:31	10
Bromoform	21	U	21	0.74	ug/m3			05/22/13 15:31	10
Cumene	9.8	U	9.8	0.54	ug/m3			05/22/13 15:31	10
1,1,1,2-Tetrachloroethane	14	U	14	0.76	ug/m3			05/22/13 15:31	10
n-Propylbenzene	9.8	U	9.8	0.64	ug/m3			05/22/13 15:31	10
4-Ethyltoluene	9.8	U	9.8	0.74	ug/m3			05/22/13 15:31	10
1,3,5-Trimethylbenzene	9.8	U	9.8	0.93	ug/m3			05/22/13 15:31	10
2-Chlorotoluene	10	U	10	0.67	ug/m3			05/22/13 15:31	10
tert-Butylbenzene	11	U	11	0.60	ug/m3			05/22/13 15:31	10
1,2,4-Trimethylbenzene	3.5	J	9.8	1.0	ug/m3			05/22/13 15:31	10
sec-Butylbenzene	11	U	11	0.82	ug/m3			05/22/13 15:31	10
4-Isopropyltoluene	11	U	11	1.1	ug/m3			05/22/13 15:31	10
1,3-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 15:31	10
1,4-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 15:31	10
Benzyl chloride	10	U	10	1.1	ug/m3			05/22/13 15:31	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Lab Sample ID: 200-16520-1

Date Collected: 05/15/13 10:52

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	11	U	11	1.2	ug/m3			05/22/13 15:31	10
1,2-Dichlorobenzene	12	U	12	1.6	ug/m3			05/22/13 15:31	10
1,2,4-Trichlorobenzene	37	U	37	2.2	ug/m3			05/22/13 15:31	10
Hexachlorobutadiene	21	U	21	3.1	ug/m3			05/22/13 15:31	10
Naphthalene	26	U	26	2.0	ug/m3			05/22/13 15:31	10

Client Sample ID: SG-2

Lab Sample ID: 200-16520-2

Date Collected: 05/15/13 11:43

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.20	ppb v/v			05/22/13 16:21	10
Freon 22	5.0	U	5.0	0.23	ppb v/v			05/22/13 16:21	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.20	ppb v/v			05/22/13 16:21	10
Chloromethane	5.0	U	5.0	0.34	ppb v/v			05/22/13 16:21	10
n-Butane	4.6	J	5.0	0.22	ppb v/v			05/22/13 16:21	10
Vinyl chloride	2.0	U	2.0	0.091	ppb v/v			05/22/13 16:21	10
1,3-Butadiene	2.0	U	2.0	0.25	ppb v/v			05/22/13 16:21	10
Bromomethane	2.0	U	2.0	0.27	ppb v/v			05/22/13 16:21	10
Chloroethane	5.0	U	5.0	0.33	ppb v/v			05/22/13 16:21	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.19	ppb v/v			05/22/13 16:21	10
Trichlorofluoromethane	2.0	U	2.0	0.21	ppb v/v			05/22/13 16:21	10
Freon TF	2.0	U	2.0	0.20	ppb v/v			05/22/13 16:21	10
1,1-Dichloroethene	2.0	U	2.0	0.86	ppb v/v			05/22/13 16:21	10
Acetone	17	J	50	4.0	ppb v/v			05/22/13 16:21	10
Isopropyl alcohol	50	U	50	0.76	ppb v/v			05/22/13 16:21	10
Carbon disulfide	8.1		5.0	0.20	ppb v/v			05/22/13 16:21	10
3-Chloropropene	5.0	U	5.0	0.47	ppb v/v			05/22/13 16:21	10
Methylene Chloride	0.77	J B	5.0	0.23	ppb v/v			05/22/13 16:21	10
tert-Butyl alcohol	50	U	50	0.41	ppb v/v			05/22/13 16:21	10
Methyl tert-butyl ether	2.0	U	2.0	0.15	ppb v/v			05/22/13 16:21	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/22/13 16:21	10
n-Hexane	1.1	J B	2.0	0.20	ppb v/v			05/22/13 16:21	10
1,1-Dichloroethane	2.0	U	2.0	0.23	ppb v/v			05/22/13 16:21	10
Methyl Ethyl Ketone	4.2	J	5.0	0.25	ppb v/v			05/22/13 16:21	10
cis-1,2-Dichloroethene	1.5	J	2.0	0.84	ppb v/v			05/22/13 16:21	10
1,2-Dichloroethene, Total	1.5	J	2.0	0.23	ppb v/v			05/22/13 16:21	10
Chloroform	2.0	U	2.0	0.24	ppb v/v			05/22/13 16:21	10
Tetrahydrofuran	50	U	50	0.29	ppb v/v			05/22/13 16:21	10
1,1,1-Trichloroethane	1.4	J	2.0	0.20	ppb v/v			05/22/13 16:21	10
Cyclohexane	2.0	U	2.0	0.19	ppb v/v			05/22/13 16:21	10
Carbon tetrachloride	2.0	U	2.0	0.13	ppb v/v			05/22/13 16:21	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.15	ppb v/v			05/22/13 16:21	10
Benzene	0.98	J	2.0	0.18	ppb v/v			05/22/13 16:21	10
1,2-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			05/22/13 16:21	10
n-Heptane	0.89	J	2.0	0.17	ppb v/v			05/22/13 16:21	10
Trichloroethene	0.65	J	2.0	0.092	ppb v/v			05/22/13 16:21	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-2

Lab Sample ID: 200-16520-2

Date Collected: 05/15/13 11:43

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl methacrylate	5.0	U	5.0	0.16	ppb v/v			05/22/13 16:21	10
1,2-Dichloropropane	2.0	U	2.0	0.23	ppb v/v			05/22/13 16:21	10
1,4-Dioxane	50	U	50	0.70	ppb v/v			05/22/13 16:21	10
Bromodichloromethane	2.0	U	2.0	0.12	ppb v/v			05/22/13 16:21	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.13	ppb v/v			05/22/13 16:21	10
methyl isobutyl ketone	4.2	J	5.0	0.34	ppb v/v			05/22/13 16:21	10
Toluene	8.8		2.0	0.14	ppb v/v			05/22/13 16:21	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.15	ppb v/v			05/22/13 16:21	10
1,1,2-Trichloroethane	2.0	U	2.0	0.16	ppb v/v			05/22/13 16:21	10
Tetrachloroethene	0.25	J	2.0	0.15	ppb v/v			05/22/13 16:21	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	0.40	ppb v/v			05/22/13 16:21	10
Dibromochloromethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 16:21	10
1,2-Dibromoethane	2.0	U	2.0	0.14	ppb v/v			05/22/13 16:21	10
Chlorobenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 16:21	10
Ethylbenzene	1.2	J	2.0	0.15	ppb v/v			05/22/13 16:21	10
m,p-Xylene	4.6	J	5.0	0.22	ppb v/v			05/22/13 16:21	10
Xylene, o-	1.7	J	2.0	0.16	ppb v/v			05/22/13 16:21	10
Xylene (total)	6.3		2.0	0.16	ppb v/v			05/22/13 16:21	10
Styrene	2.0	U	2.0	0.11	ppb v/v			05/22/13 16:21	10
Bromoform	2.0	U	2.0	0.072	ppb v/v			05/22/13 16:21	10
Cumene	2.0	U	2.0	0.11	ppb v/v			05/22/13 16:21	10
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 16:21	10
n-Propylbenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 16:21	10
4-Ethyltoluene	2.0	U	2.0	0.15	ppb v/v			05/22/13 16:21	10
1,3,5-Trimethylbenzene	0.56	J	2.0	0.19	ppb v/v			05/22/13 16:21	10
2-Chlorotoluene	2.0	U	2.0	0.13	ppb v/v			05/22/13 16:21	10
tert-Butylbenzene	2.0	U	2.0	0.11	ppb v/v			05/22/13 16:21	10
1,2,4-Trimethylbenzene	1.8	J	2.0	0.21	ppb v/v			05/22/13 16:21	10
sec-Butylbenzene	2.0	U	2.0	0.15	ppb v/v			05/22/13 16:21	10
4-Isopropyltoluene	2.0	U	2.0	0.20	ppb v/v			05/22/13 16:21	10
1,3-Dichlorobenzene	2.0	U	2.0	0.19	ppb v/v			05/22/13 16:21	10
1,4-Dichlorobenzene	2.0	U	2.0	0.18	ppb v/v			05/22/13 16:21	10
Benzyl chloride	2.0	U	2.0	0.22	ppb v/v			05/22/13 16:21	10
n-Butylbenzene	2.0	U	2.0	0.22	ppb v/v			05/22/13 16:21	10
1,2-Dichlorobenzene	2.0	U	2.0	0.26	ppb v/v			05/22/13 16:21	10
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ppb v/v			05/22/13 16:21	10
Hexachlorobutadiene	2.0	U	2.0	0.29	ppb v/v			05/22/13 16:21	10
Naphthalene	5.0	U	5.0	0.38	ppb v/v			05/22/13 16:21	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	0.99	ug/m3			05/22/13 16:21	10
Freon 22	18	U	18	0.81	ug/m3			05/22/13 16:21	10
1,2-Dichlorotetrafluoroethane	14	U	14	1.4	ug/m3			05/22/13 16:21	10
Chloromethane	10	U	10	0.70	ug/m3			05/22/13 16:21	10
n-Butane	11	J	12	0.52	ug/m3			05/22/13 16:21	10
Vinyl chloride	5.1	U	5.1	0.23	ug/m3			05/22/13 16:21	10
1,3-Butadiene	4.4	U	4.4	0.55	ug/m3			05/22/13 16:21	10
Bromomethane	7.8	U	7.8	1.0	ug/m3			05/22/13 16:21	10
Chloroethane	13	U	13	0.87	ug/m3			05/22/13 16:21	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-2

Lab Sample ID: 200-16520-2

Date Collected: 05/15/13 11:43

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.83	ug/m3			05/22/13 16:21	10
Trichlorofluoromethane	11	U	11	1.2	ug/m3			05/22/13 16:21	10
Freon TF	15	U	15	1.5	ug/m3			05/22/13 16:21	10
1,1-Dichloroethene	7.9	U	7.9	3.4	ug/m3			05/22/13 16:21	10
Acetone	41	J	120	9.5	ug/m3			05/22/13 16:21	10
Isopropyl alcohol	120	U	120	1.9	ug/m3			05/22/13 16:21	10
Carbon disulfide	25		16	0.62	ug/m3			05/22/13 16:21	10
3-Chloropropene	16	U	16	1.5	ug/m3			05/22/13 16:21	10
Methylene Chloride	2.7	J B	17	0.80	ug/m3			05/22/13 16:21	10
tert-Butyl alcohol	150	U	150	1.2	ug/m3			05/22/13 16:21	10
Methyl tert-butyl ether	7.2	U	7.2	0.54	ug/m3			05/22/13 16:21	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/22/13 16:21	10
n-Hexane	3.9	J B	7.0	0.70	ug/m3			05/22/13 16:21	10
1,1-Dichloroethane	8.1	U	8.1	0.93	ug/m3			05/22/13 16:21	10
Methyl Ethyl Ketone	12	J	15	0.74	ug/m3			05/22/13 16:21	10
cis-1,2-Dichloroethene	5.9	J	7.9	3.3	ug/m3			05/22/13 16:21	10
1,2-Dichloroethene, Total	5.9	J	7.9	0.91	ug/m3			05/22/13 16:21	10
Chloroform	9.8	U	9.8	1.2	ug/m3			05/22/13 16:21	10
Tetrahydrofuran	150	U	150	0.86	ug/m3			05/22/13 16:21	10
1,1,1-Trichloroethane	7.8	J	11	1.1	ug/m3			05/22/13 16:21	10
Cyclohexane	6.9	U	6.9	0.65	ug/m3			05/22/13 16:21	10
Carbon tetrachloride	13	U	13	0.82	ug/m3			05/22/13 16:21	10
2,2,4-Trimethylpentane	9.3	U	9.3	0.70	ug/m3			05/22/13 16:21	10
Benzene	3.1	J	6.4	0.58	ug/m3			05/22/13 16:21	10
1,2-Dichloroethane	8.1	U	8.1	0.73	ug/m3			05/22/13 16:21	10
n-Heptane	3.7	J	8.2	0.70	ug/m3			05/22/13 16:21	10
Trichloroethene	3.5	J	11	0.49	ug/m3			05/22/13 16:21	10
Methyl methacrylate	20	U	20	0.66	ug/m3			05/22/13 16:21	10
1,2-Dichloropropane	9.2	U	9.2	1.1	ug/m3			05/22/13 16:21	10
1,4-Dioxane	180	U	180	2.5	ug/m3			05/22/13 16:21	10
Bromodichloromethane	13	U	13	0.80	ug/m3			05/22/13 16:21	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.59	ug/m3			05/22/13 16:21	10
methyl isobutyl ketone	17	J	20	1.4	ug/m3			05/22/13 16:21	10
Toluene	33		7.5	0.53	ug/m3			05/22/13 16:21	10
trans-1,3-Dichloropropene	9.1	U	9.1	0.68	ug/m3			05/22/13 16:21	10
1,1,2-Trichloroethane	11	U	11	0.87	ug/m3			05/22/13 16:21	10
Tetrachloroethene	1.7	J	14	1.0	ug/m3			05/22/13 16:21	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	1.6	ug/m3			05/22/13 16:21	10
Dibromochloromethane	17	U	17	0.94	ug/m3			05/22/13 16:21	10
1,2-Dibromoethane	15	U	15	1.1	ug/m3			05/22/13 16:21	10
Chlorobenzene	9.2	U	9.2	0.60	ug/m3			05/22/13 16:21	10
Ethylbenzene	5.1	J	8.7	0.65	ug/m3			05/22/13 16:21	10
m,p-Xylene	20	J	22	0.96	ug/m3			05/22/13 16:21	10
Xylene, o-	7.2	J	8.7	0.69	ug/m3			05/22/13 16:21	10
Xylene (total)	27		8.7	0.69	ug/m3			05/22/13 16:21	10
Styrene	8.5	U	8.5	0.47	ug/m3			05/22/13 16:21	10
Bromoform	21	U	21	0.74	ug/m3			05/22/13 16:21	10
Cumene	9.8	U	9.8	0.54	ug/m3			05/22/13 16:21	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-2

Lab Sample ID: 200-16520-2

Date Collected: 05/15/13 11:43

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	14	U	14	0.76	ug/m3			05/22/13 16:21	10
n-Propylbenzene	9.8	U	9.8	0.64	ug/m3			05/22/13 16:21	10
4-Ethyltoluene	9.8	U	9.8	0.74	ug/m3			05/22/13 16:21	10
1,3,5-Trimethylbenzene	2.7	J	9.8	0.93	ug/m3			05/22/13 16:21	10
2-Chlorotoluene	10	U	10	0.67	ug/m3			05/22/13 16:21	10
tert-Butylbenzene	11	U	11	0.60	ug/m3			05/22/13 16:21	10
1,2,4-Trimethylbenzene	8.7	J	9.8	1.0	ug/m3			05/22/13 16:21	10
sec-Butylbenzene	11	U	11	0.82	ug/m3			05/22/13 16:21	10
4-Isopropyltoluene	11	U	11	1.1	ug/m3			05/22/13 16:21	10
1,3-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 16:21	10
1,4-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 16:21	10
Benzyl chloride	10	U	10	1.1	ug/m3			05/22/13 16:21	10
n-Butylbenzene	11	U	11	1.2	ug/m3			05/22/13 16:21	10
1,2-Dichlorobenzene	12	U	12	1.6	ug/m3			05/22/13 16:21	10
1,2,4-Trichlorobenzene	37	U	37	2.2	ug/m3			05/22/13 16:21	10
Hexachlorobutadiene	21	U	21	3.1	ug/m3			05/22/13 16:21	10
Naphthalene	26	U	26	2.0	ug/m3			05/22/13 16:21	10

Client Sample ID: SG-3

Lab Sample ID: 200-16520-3

Date Collected: 05/15/13 12:15

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.0	U	5.0	0.20	ppb v/v			05/22/13 17:11	10
Freon 22	5.0	U	5.0	0.23	ppb v/v			05/22/13 17:11	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.20	ppb v/v			05/22/13 17:11	10
Chloromethane	5.0	U	5.0	0.34	ppb v/v			05/22/13 17:11	10
n-Butane	1000	E	5.0	0.22	ppb v/v			05/22/13 17:11	10
Vinyl chloride	2.0	U	2.0	0.091	ppb v/v			05/22/13 17:11	10
1,3-Butadiene	2.0	U	2.0	0.25	ppb v/v			05/22/13 17:11	10
Bromomethane	2.0	U	2.0	0.27	ppb v/v			05/22/13 17:11	10
Chloroethane	5.0	U	5.0	0.33	ppb v/v			05/22/13 17:11	10
Bromoethene(Vinyl Bromide)	2.0	U	2.0	0.19	ppb v/v			05/22/13 17:11	10
Trichlorofluoromethane	2.0	U	2.0	0.21	ppb v/v			05/22/13 17:11	10
Freon TF	2.0	U	2.0	0.20	ppb v/v			05/22/13 17:11	10
1,1-Dichloroethene	2.0	U	2.0	0.86	ppb v/v			05/22/13 17:11	10
Acetone	410	E	50	4.0	ppb v/v			05/22/13 17:11	10
Isopropyl alcohol	26	J	50	0.76	ppb v/v			05/22/13 17:11	10
Carbon disulfide	1.2	J	5.0	0.20	ppb v/v			05/22/13 17:11	10
3-Chloropropene	5.0	U	5.0	0.47	ppb v/v			05/22/13 17:11	10
Methylene Chloride	1.1	J B	5.0	0.23	ppb v/v			05/22/13 17:11	10
tert-Butyl alcohol	21	J	50	0.41	ppb v/v			05/22/13 17:11	10
Methyl tert-butyl ether	2.0	U	2.0	0.15	ppb v/v			05/22/13 17:11	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/22/13 17:11	10
n-Hexane	78	B	2.0	0.20	ppb v/v			05/22/13 17:11	10
1,1-Dichloroethane	2.0	U	2.0	0.23	ppb v/v			05/22/13 17:11	10
Methyl Ethyl Ketone	17		5.0	0.25	ppb v/v			05/22/13 17:11	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-3

Lab Sample ID: 200-16520-3

Date Collected: 05/15/13 12:15

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.3	J	2.0	0.84	ppb v/v			05/22/13 17:11	10
1,2-Dichloroethene, Total	1.3	J	2.0	0.23	ppb v/v			05/22/13 17:11	10
Chloroform	2.0	U	2.0	0.24	ppb v/v			05/22/13 17:11	10
Tetrahydrofuran	50	U	50	0.29	ppb v/v			05/22/13 17:11	10
1,1,1-Trichloroethane	0.59	J	2.0	0.20	ppb v/v			05/22/13 17:11	10
Cyclohexane	21		2.0	0.19	ppb v/v			05/22/13 17:11	10
Carbon tetrachloride	2.0	U	2.0	0.13	ppb v/v			05/22/13 17:11	10
2,2,4-Trimethylpentane	2.0	U	2.0	0.15	ppb v/v			05/22/13 17:11	10
Benzene	77		2.0	0.18	ppb v/v			05/22/13 17:11	10
1,2-Dichloroethane	2.0	U	2.0	0.18	ppb v/v			05/22/13 17:11	10
n-Heptane	26		2.0	0.17	ppb v/v			05/22/13 17:11	10
Trichloroethene	2.0	U	2.0	0.092	ppb v/v			05/22/13 17:11	10
Methyl methacrylate	5.0	U	5.0	0.16	ppb v/v			05/22/13 17:11	10
1,2-Dichloropropane	2.0	U	2.0	0.23	ppb v/v			05/22/13 17:11	10
1,4-Dioxane	50	U	50	0.70	ppb v/v			05/22/13 17:11	10
Bromodichloromethane	2.0	U	2.0	0.12	ppb v/v			05/22/13 17:11	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.13	ppb v/v			05/22/13 17:11	10
methyl isobutyl ketone	4.9	J	5.0	0.34	ppb v/v			05/22/13 17:11	10
Toluene	12		2.0	0.14	ppb v/v			05/22/13 17:11	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.15	ppb v/v			05/22/13 17:11	10
1,1,2-Trichloroethane	2.0	U	2.0	0.16	ppb v/v			05/22/13 17:11	10
Tetrachloroethene	0.23	J	2.0	0.15	ppb v/v			05/22/13 17:11	10
Methyl Butyl Ketone (2-Hexanone)	2.2	J	5.0	0.40	ppb v/v			05/22/13 17:11	10
Dibromochloromethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 17:11	10
1,2-Dibromoethane	2.0	U	2.0	0.14	ppb v/v			05/22/13 17:11	10
Chlorobenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 17:11	10
Ethylbenzene	0.88	J	2.0	0.15	ppb v/v			05/22/13 17:11	10
m,p-Xylene	3.6	J	5.0	0.22	ppb v/v			05/22/13 17:11	10
Xylene, o-	1.1	J	2.0	0.16	ppb v/v			05/22/13 17:11	10
Xylene (total)	4.7		2.0	0.16	ppb v/v			05/22/13 17:11	10
Styrene	2.0	U	2.0	0.11	ppb v/v			05/22/13 17:11	10
Bromoform	2.0	U	2.0	0.072	ppb v/v			05/22/13 17:11	10
Cumene	2.0	U	2.0	0.11	ppb v/v			05/22/13 17:11	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.11	ppb v/v			05/22/13 17:11	10
n-Propylbenzene	2.0	U	2.0	0.13	ppb v/v			05/22/13 17:11	10
4-Ethyltoluene	2.0	U	2.0	0.15	ppb v/v			05/22/13 17:11	10
1,3,5-Trimethylbenzene	0.51	J	2.0	0.19	ppb v/v			05/22/13 17:11	10
2-Chlorotoluene	2.0	U	2.0	0.13	ppb v/v			05/22/13 17:11	10
tert-Butylbenzene	2.0	U	2.0	0.11	ppb v/v			05/22/13 17:11	10
1,2,4-Trimethylbenzene	1.5	J	2.0	0.21	ppb v/v			05/22/13 17:11	10
sec-Butylbenzene	2.0	U	2.0	0.15	ppb v/v			05/22/13 17:11	10
4-Isopropyltoluene	2.0	U	2.0	0.20	ppb v/v			05/22/13 17:11	10
1,3-Dichlorobenzene	2.0	U	2.0	0.19	ppb v/v			05/22/13 17:11	10
1,4-Dichlorobenzene	2.0	U	2.0	0.18	ppb v/v			05/22/13 17:11	10
Benzyl chloride	2.0	U	2.0	0.22	ppb v/v			05/22/13 17:11	10
n-Butylbenzene	2.0	U	2.0	0.22	ppb v/v			05/22/13 17:11	10
1,2-Dichlorobenzene	2.0	U	2.0	0.26	ppb v/v			05/22/13 17:11	10
1,2,4-Trichlorobenzene	5.0	U	5.0	0.30	ppb v/v			05/22/13 17:11	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-3

Lab Sample ID: 200-16520-3

Date Collected: 05/15/13 12:15

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	2.0	U	2.0	0.29	ppb v/v			05/22/13 17:11	10
Naphthalene	5.0	U	5.0	0.38	ppb v/v			05/22/13 17:11	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	25	U	25	0.99	ug/m3			05/22/13 17:11	10
Freon 22	18	U	18	0.81	ug/m3			05/22/13 17:11	10
1,2-Dichlorotetrafluoroethane	14	U	14	1.4	ug/m3			05/22/13 17:11	10
Chloromethane	10	U	10	0.70	ug/m3			05/22/13 17:11	10
n-Butane	2500	E	12	0.52	ug/m3			05/22/13 17:11	10
Vinyl chloride	5.1	U	5.1	0.23	ug/m3			05/22/13 17:11	10
1,3-Butadiene	4.4	U	4.4	0.55	ug/m3			05/22/13 17:11	10
Bromomethane	7.8	U	7.8	1.0	ug/m3			05/22/13 17:11	10
Chloroethane	13	U	13	0.87	ug/m3			05/22/13 17:11	10
Bromoethene(Vinyl Bromide)	8.7	U	8.7	0.83	ug/m3			05/22/13 17:11	10
Trichlorofluoromethane	11	U	11	1.2	ug/m3			05/22/13 17:11	10
Freon TF	15	U	15	1.5	ug/m3			05/22/13 17:11	10
1,1-Dichloroethene	7.9	U	7.9	3.4	ug/m3			05/22/13 17:11	10
Acetone	970	E	120	9.5	ug/m3			05/22/13 17:11	10
Isopropyl alcohol	64	J	120	1.9	ug/m3			05/22/13 17:11	10
Carbon disulfide	3.8	J	16	0.62	ug/m3			05/22/13 17:11	10
3-Chloropropene	16	U	16	1.5	ug/m3			05/22/13 17:11	10
Methylene Chloride	3.8	J B	17	0.80	ug/m3			05/22/13 17:11	10
tert-Butyl alcohol	63	J	150	1.2	ug/m3			05/22/13 17:11	10
Methyl tert-butyl ether	7.2	U	7.2	0.54	ug/m3			05/22/13 17:11	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/22/13 17:11	10
n-Hexane	280	B	7.0	0.70	ug/m3			05/22/13 17:11	10
1,1-Dichloroethane	8.1	U	8.1	0.93	ug/m3			05/22/13 17:11	10
Methyl Ethyl Ketone	49		15	0.74	ug/m3			05/22/13 17:11	10
cis-1,2-Dichloroethene	5.1	J	7.9	3.3	ug/m3			05/22/13 17:11	10
1,2-Dichloroethene, Total	5.1	J	7.9	0.91	ug/m3			05/22/13 17:11	10
Chloroform	9.8	U	9.8	1.2	ug/m3			05/22/13 17:11	10
Tetrahydrofuran	150	U	150	0.86	ug/m3			05/22/13 17:11	10
1,1,1-Trichloroethane	3.2	J	11	1.1	ug/m3			05/22/13 17:11	10
Cyclohexane	73		6.9	0.65	ug/m3			05/22/13 17:11	10
Carbon tetrachloride	13	U	13	0.82	ug/m3			05/22/13 17:11	10
2,2,4-Trimethylpentane	9.3	U	9.3	0.70	ug/m3			05/22/13 17:11	10
Benzene	250		6.4	0.58	ug/m3			05/22/13 17:11	10
1,2-Dichloroethane	8.1	U	8.1	0.73	ug/m3			05/22/13 17:11	10
n-Heptane	110		8.2	0.70	ug/m3			05/22/13 17:11	10
Trichloroethene	11	U	11	0.49	ug/m3			05/22/13 17:11	10
Methyl methacrylate	20	U	20	0.66	ug/m3			05/22/13 17:11	10
1,2-Dichloropropane	9.2	U	9.2	1.1	ug/m3			05/22/13 17:11	10
1,4-Dioxane	180	U	180	2.5	ug/m3			05/22/13 17:11	10
Bromodichloromethane	13	U	13	0.80	ug/m3			05/22/13 17:11	10
cis-1,3-Dichloropropene	9.1	U	9.1	0.59	ug/m3			05/22/13 17:11	10
methyl isobutyl ketone	20	J	20	1.4	ug/m3			05/22/13 17:11	10
Toluene	45		7.5	0.53	ug/m3			05/22/13 17:11	10
trans-1,3-Dichloropropene	9.1	U	9.1	0.68	ug/m3			05/22/13 17:11	10
1,1,2-Trichloroethane	11	U	11	0.87	ug/m3			05/22/13 17:11	10

TestAmerica Burlington

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-3

Lab Sample ID: 200-16520-3

Date Collected: 05/15/13 12:15

Matrix: Air

Date Received: 05/17/13 10:10

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1.5	J	14	1.0	ug/m3			05/22/13 17:11	10
Methyl Butyl Ketone (2-Hexanone)	9.1	J	20	1.6	ug/m3			05/22/13 17:11	10
Dibromochloromethane	17	U	17	0.94	ug/m3			05/22/13 17:11	10
1,2-Dibromoethane	15	U	15	1.1	ug/m3			05/22/13 17:11	10
Chlorobenzene	9.2	U	9.2	0.60	ug/m3			05/22/13 17:11	10
Ethylbenzene	3.8	J	8.7	0.65	ug/m3			05/22/13 17:11	10
m,p-Xylene	16	J	22	0.96	ug/m3			05/22/13 17:11	10
Xylene, o-	4.9	J	8.7	0.69	ug/m3			05/22/13 17:11	10
Xylene (total)	20		8.7	0.69	ug/m3			05/22/13 17:11	10
Styrene	8.5	U	8.5	0.47	ug/m3			05/22/13 17:11	10
Bromoform	21	U	21	0.74	ug/m3			05/22/13 17:11	10
Cumene	9.8	U	9.8	0.54	ug/m3			05/22/13 17:11	10
1,1,1,2-Tetrachloroethane	14	U	14	0.76	ug/m3			05/22/13 17:11	10
n-Propylbenzene	9.8	U	9.8	0.64	ug/m3			05/22/13 17:11	10
4-Ethyltoluene	9.8	U	9.8	0.74	ug/m3			05/22/13 17:11	10
1,3,5-Trimethylbenzene	2.5	J	9.8	0.93	ug/m3			05/22/13 17:11	10
2-Chlorotoluene	10	U	10	0.67	ug/m3			05/22/13 17:11	10
tert-Butylbenzene	11	U	11	0.60	ug/m3			05/22/13 17:11	10
1,2,4-Trimethylbenzene	7.5	J	9.8	1.0	ug/m3			05/22/13 17:11	10
sec-Butylbenzene	11	U	11	0.82	ug/m3			05/22/13 17:11	10
4-Isopropyltoluene	11	U	11	1.1	ug/m3			05/22/13 17:11	10
1,3-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 17:11	10
1,4-Dichlorobenzene	12	U	12	1.1	ug/m3			05/22/13 17:11	10
Benzyl chloride	10	U	10	1.1	ug/m3			05/22/13 17:11	10
n-Butylbenzene	11	U	11	1.2	ug/m3			05/22/13 17:11	10
1,2-Dichlorobenzene	12	U	12	1.6	ug/m3			05/22/13 17:11	10
1,2,4-Trichlorobenzene	37	U	37	2.2	ug/m3			05/22/13 17:11	10
Hexachlorobutadiene	21	U	21	3.1	ug/m3			05/22/13 17:11	10
Naphthalene	26	U	26	2.0	ug/m3			05/22/13 17:11	10

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-55927/4

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.50	U	0.50	0.020	ppb v/v			05/22/13 13:51	1
Freon 22	0.50	U	0.50	0.023	ppb v/v			05/22/13 13:51	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.020	ppb v/v			05/22/13 13:51	1
Chloromethane	0.50	U	0.50	0.034	ppb v/v			05/22/13 13:51	1
n-Butane	0.50	U	0.50	0.022	ppb v/v			05/22/13 13:51	1
Vinyl chloride	0.20	U	0.20	0.0091	ppb v/v			05/22/13 13:51	1
1,3-Butadiene	0.20	U	0.20	0.025	ppb v/v			05/22/13 13:51	1
Bromomethane	0.20	U	0.20	0.027	ppb v/v			05/22/13 13:51	1
Chloroethane	0.50	U	0.50	0.033	ppb v/v			05/22/13 13:51	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.019	ppb v/v			05/22/13 13:51	1
Trichlorofluoromethane	0.20	U	0.20	0.021	ppb v/v			05/22/13 13:51	1
Freon TF	0.20	U	0.20	0.020	ppb v/v			05/22/13 13:51	1
1,1-Dichloroethene	0.20	U	0.20	0.086	ppb v/v			05/22/13 13:51	1
Acetone	5.0	U	5.0	0.40	ppb v/v			05/22/13 13:51	1
Isopropyl alcohol	5.0	U	5.0	0.076	ppb v/v			05/22/13 13:51	1
Carbon disulfide	0.50	U	0.50	0.020	ppb v/v			05/22/13 13:51	1
3-Chloropropene	0.50	U	0.50	0.047	ppb v/v			05/22/13 13:51	1
Methylene Chloride	0.0568	J	0.50	0.023	ppb v/v			05/22/13 13:51	1
tert-Butyl alcohol	5.0	U	5.0	0.041	ppb v/v			05/22/13 13:51	1
Methyl tert-butyl ether	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.023	ppb v/v			05/22/13 13:51	1
n-Hexane	0.0343	J	0.20	0.020	ppb v/v			05/22/13 13:51	1
1,1-Dichloroethane	0.20	U	0.20	0.023	ppb v/v			05/22/13 13:51	1
Methyl Ethyl Ketone	0.50	U	0.50	0.025	ppb v/v			05/22/13 13:51	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.084	ppb v/v			05/22/13 13:51	1
1,2-Dichloroethene, Total	0.20	U	0.20	0.023	ppb v/v			05/22/13 13:51	1
Chloroform	0.20	U	0.20	0.024	ppb v/v			05/22/13 13:51	1
Tetrahydrofuran	5.0	U	5.0	0.029	ppb v/v			05/22/13 13:51	1
1,1,1-Trichloroethane	0.20	U	0.20	0.020	ppb v/v			05/22/13 13:51	1
Cyclohexane	0.20	U	0.20	0.019	ppb v/v			05/22/13 13:51	1
Carbon tetrachloride	0.20	U	0.20	0.013	ppb v/v			05/22/13 13:51	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
Benzene	0.20	U	0.20	0.018	ppb v/v			05/22/13 13:51	1
1,2-Dichloroethane	0.20	U	0.20	0.018	ppb v/v			05/22/13 13:51	1
n-Heptane	0.20	U	0.20	0.017	ppb v/v			05/22/13 13:51	1
Trichloroethene	0.20	U	0.20	0.0092	ppb v/v			05/22/13 13:51	1
Methyl methacrylate	0.50	U	0.50	0.016	ppb v/v			05/22/13 13:51	1
1,2-Dichloropropane	0.20	U	0.20	0.023	ppb v/v			05/22/13 13:51	1
1,4-Dioxane	5.0	U	5.0	0.070	ppb v/v			05/22/13 13:51	1
Bromodichloromethane	0.20	U	0.20	0.012	ppb v/v			05/22/13 13:51	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.013	ppb v/v			05/22/13 13:51	1
methyl isobutyl ketone	0.50	U	0.50	0.034	ppb v/v			05/22/13 13:51	1
Toluene	0.20	U	0.20	0.014	ppb v/v			05/22/13 13:51	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
1,1,1,2-Trichloroethane	0.20	U	0.20	0.016	ppb v/v			05/22/13 13:51	1
Tetrachloroethene	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.040	ppb v/v			05/22/13 13:51	1
Dibromochloromethane	0.20	U	0.20	0.011	ppb v/v			05/22/13 13:51	1

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-55927/4

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dibromoethane	0.20	U	0.20	0.014	ppb v/v			05/22/13 13:51	1
Chlorobenzene	0.20	U	0.20	0.013	ppb v/v			05/22/13 13:51	1
Ethylbenzene	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
m,p-Xylene	0.50	U	0.50	0.022	ppb v/v			05/22/13 13:51	1
Xylene, o-	0.20	U	0.20	0.016	ppb v/v			05/22/13 13:51	1
Xylene (total)	0.20	U	0.20	0.016	ppb v/v			05/22/13 13:51	1
Styrene	0.20	U	0.20	0.011	ppb v/v			05/22/13 13:51	1
Bromoform	0.20	U	0.20	0.0072	ppb v/v			05/22/13 13:51	1
Cumene	0.20	U	0.20	0.011	ppb v/v			05/22/13 13:51	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.011	ppb v/v			05/22/13 13:51	1
n-Propylbenzene	0.20	U	0.20	0.013	ppb v/v			05/22/13 13:51	1
4-Ethyltoluene	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.019	ppb v/v			05/22/13 13:51	1
2-Chlorotoluene	0.20	U	0.20	0.013	ppb v/v			05/22/13 13:51	1
tert-Butylbenzene	0.20	U	0.20	0.011	ppb v/v			05/22/13 13:51	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.021	ppb v/v			05/22/13 13:51	1
sec-Butylbenzene	0.20	U	0.20	0.015	ppb v/v			05/22/13 13:51	1
4-Isopropyltoluene	0.20	U	0.20	0.020	ppb v/v			05/22/13 13:51	1
1,3-Dichlorobenzene	0.20	U	0.20	0.019	ppb v/v			05/22/13 13:51	1
1,4-Dichlorobenzene	0.20	U	0.20	0.018	ppb v/v			05/22/13 13:51	1
Benzyl chloride	0.20	U	0.20	0.022	ppb v/v			05/22/13 13:51	1
n-Butylbenzene	0.20	U	0.20	0.022	ppb v/v			05/22/13 13:51	1
1,2-Dichlorobenzene	0.20	U	0.20	0.026	ppb v/v			05/22/13 13:51	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.030	ppb v/v			05/22/13 13:51	1
Hexachlorobutadiene	0.20	U	0.20	0.029	ppb v/v			05/22/13 13:51	1
Naphthalene	0.50	U	0.50	0.038	ppb v/v			05/22/13 13:51	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	2.5	U	2.5	0.099	ug/m3			05/22/13 13:51	1
Freon 22	1.8	U	1.8	0.081	ug/m3			05/22/13 13:51	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.14	ug/m3			05/22/13 13:51	1
Chloromethane	1.0	U	1.0	0.070	ug/m3			05/22/13 13:51	1
n-Butane	1.2	U	1.2	0.052	ug/m3			05/22/13 13:51	1
Vinyl chloride	0.51	U	0.51	0.023	ug/m3			05/22/13 13:51	1
1,3-Butadiene	0.44	U	0.44	0.055	ug/m3			05/22/13 13:51	1
Bromomethane	0.78	U	0.78	0.10	ug/m3			05/22/13 13:51	1
Chloroethane	1.3	U	1.3	0.087	ug/m3			05/22/13 13:51	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.083	ug/m3			05/22/13 13:51	1
Trichlorofluoromethane	1.1	U	1.1	0.12	ug/m3			05/22/13 13:51	1
Freon TF	1.5	U	1.5	0.15	ug/m3			05/22/13 13:51	1
1,1-Dichloroethene	0.79	U	0.79	0.34	ug/m3			05/22/13 13:51	1
Acetone	12	U	12	0.95	ug/m3			05/22/13 13:51	1
Isopropyl alcohol	12	U	12	0.19	ug/m3			05/22/13 13:51	1
Carbon disulfide	1.6	U	1.6	0.062	ug/m3			05/22/13 13:51	1
3-Chloropropene	1.6	U	1.6	0.15	ug/m3			05/22/13 13:51	1
Methylene Chloride	0.197	J	1.7	0.080	ug/m3			05/22/13 13:51	1
tert-Butyl alcohol	15	U	15	0.12	ug/m3			05/22/13 13:51	1
Methyl tert-butyl ether	0.72	U	0.72	0.054	ug/m3			05/22/13 13:51	1

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-55927/4

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,2-Dichloroethene	0.79	U	0.79	0.091	ug/m3			05/22/13 13:51	1
n-Hexane	0.121	J	0.70	0.070	ug/m3			05/22/13 13:51	1
1,1-Dichloroethane	0.81	U	0.81	0.093	ug/m3			05/22/13 13:51	1
Methyl Ethyl Ketone	1.5	U	1.5	0.074	ug/m3			05/22/13 13:51	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.33	ug/m3			05/22/13 13:51	1
1,2-Dichloroethene, Total	0.79	U	0.79	0.091	ug/m3			05/22/13 13:51	1
Chloroform	0.98	U	0.98	0.12	ug/m3			05/22/13 13:51	1
Tetrahydrofuran	15	U	15	0.086	ug/m3			05/22/13 13:51	1
1,1,1-Trichloroethane	1.1	U	1.1	0.11	ug/m3			05/22/13 13:51	1
Cyclohexane	0.69	U	0.69	0.065	ug/m3			05/22/13 13:51	1
Carbon tetrachloride	1.3	U	1.3	0.082	ug/m3			05/22/13 13:51	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.070	ug/m3			05/22/13 13:51	1
Benzene	0.64	U	0.64	0.058	ug/m3			05/22/13 13:51	1
1,2-Dichloroethane	0.81	U	0.81	0.073	ug/m3			05/22/13 13:51	1
n-Heptane	0.82	U	0.82	0.070	ug/m3			05/22/13 13:51	1
Trichloroethene	1.1	U	1.1	0.049	ug/m3			05/22/13 13:51	1
Methyl methacrylate	2.0	U	2.0	0.066	ug/m3			05/22/13 13:51	1
1,2-Dichloropropane	0.92	U	0.92	0.11	ug/m3			05/22/13 13:51	1
1,4-Dioxane	18	U	18	0.25	ug/m3			05/22/13 13:51	1
Bromodichloromethane	1.3	U	1.3	0.080	ug/m3			05/22/13 13:51	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.059	ug/m3			05/22/13 13:51	1
methyl isobutyl ketone	2.0	U	2.0	0.14	ug/m3			05/22/13 13:51	1
Toluene	0.75	U	0.75	0.053	ug/m3			05/22/13 13:51	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.068	ug/m3			05/22/13 13:51	1
1,1,2-Trichloroethane	1.1	U	1.1	0.087	ug/m3			05/22/13 13:51	1
Tetrachloroethene	1.4	U	1.4	0.10	ug/m3			05/22/13 13:51	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.16	ug/m3			05/22/13 13:51	1
Dibromochloromethane	1.7	U	1.7	0.094	ug/m3			05/22/13 13:51	1
1,2-Dibromoethane	1.5	U	1.5	0.11	ug/m3			05/22/13 13:51	1
Chlorobenzene	0.92	U	0.92	0.060	ug/m3			05/22/13 13:51	1
Ethylbenzene	0.87	U	0.87	0.065	ug/m3			05/22/13 13:51	1
m,p-Xylene	2.2	U	2.2	0.096	ug/m3			05/22/13 13:51	1
Xylene, o-	0.87	U	0.87	0.069	ug/m3			05/22/13 13:51	1
Xylene (total)	0.87	U	0.87	0.069	ug/m3			05/22/13 13:51	1
Styrene	0.85	U	0.85	0.047	ug/m3			05/22/13 13:51	1
Bromoform	2.1	U	2.1	0.074	ug/m3			05/22/13 13:51	1
Cumene	0.98	U	0.98	0.054	ug/m3			05/22/13 13:51	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.076	ug/m3			05/22/13 13:51	1
n-Propylbenzene	0.98	U	0.98	0.064	ug/m3			05/22/13 13:51	1
4-Ethyltoluene	0.98	U	0.98	0.074	ug/m3			05/22/13 13:51	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.093	ug/m3			05/22/13 13:51	1
2-Chlorotoluene	1.0	U	1.0	0.067	ug/m3			05/22/13 13:51	1
tert-Butylbenzene	1.1	U	1.1	0.060	ug/m3			05/22/13 13:51	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.10	ug/m3			05/22/13 13:51	1
sec-Butylbenzene	1.1	U	1.1	0.082	ug/m3			05/22/13 13:51	1
4-Isopropyltoluene	1.1	U	1.1	0.11	ug/m3			05/22/13 13:51	1
1,3-Dichlorobenzene	1.2	U	1.2	0.11	ug/m3			05/22/13 13:51	1
1,4-Dichlorobenzene	1.2	U	1.2	0.11	ug/m3			05/22/13 13:51	1

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-55927/4

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzyl chloride	1.0	U	1.0	0.11	ug/m3			05/22/13 13:51	1
n-Butylbenzene	1.1	U	1.1	0.12	ug/m3			05/22/13 13:51	1
1,2-Dichlorobenzene	1.2	U	1.2	0.16	ug/m3			05/22/13 13:51	1
1,2,4-Trichlorobenzene	3.7	U	3.7	0.22	ug/m3			05/22/13 13:51	1
Hexachlorobutadiene	2.1	U	2.1	0.31	ug/m3			05/22/13 13:51	1
Naphthalene	2.6	U	2.6	0.20	ug/m3			05/22/13 13:51	1

Lab Sample ID: LCS 200-55927/3

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Dichlorodifluoromethane	10.0	10.7		ppb v/v		107	70 - 130
Freon 22	10.0	9.86		ppb v/v		99	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	10.4		ppb v/v		104	70 - 130
Chloromethane	10.0	9.72		ppb v/v		97	70 - 130
n-Butane	10.0	9.21		ppb v/v		92	70 - 130
Vinyl chloride	10.0	9.83		ppb v/v		98	70 - 130
1,3-Butadiene	10.0	9.99		ppb v/v		100	70 - 130
Bromomethane	10.0	9.95		ppb v/v		100	70 - 130
Chloroethane	10.0	9.40		ppb v/v		94	70 - 130
Bromoethene(Vinyl Bromide)	10.0	10.6		ppb v/v		106	70 - 130
Trichlorofluoromethane	10.0	10.8		ppb v/v		108	70 - 130
Freon TF	10.0	11.2		ppb v/v		112	70 - 130
1,1-Dichloroethene	10.0	11.2		ppb v/v		112	70 - 130
Acetone	10.0	12.6		ppb v/v		126	70 - 130
Isopropyl alcohol	10.0	9.91		ppb v/v		99	70 - 130
Carbon disulfide	10.0	10.3		ppb v/v		103	70 - 130
3-Chloropropene	10.0	9.60		ppb v/v		96	70 - 130
Methylene Chloride	10.0	10.6		ppb v/v		106	70 - 130
tert-Butyl alcohol	10.0	10.3		ppb v/v		103	70 - 130
Methyl tert-butyl ether	10.0	10.4		ppb v/v		104	70 - 130
trans-1,2-Dichloroethene	10.0	9.97		ppb v/v		100	70 - 130
n-Hexane	10.0	9.84		ppb v/v		98	70 - 130
1,1-Dichloroethane	10.0	9.58		ppb v/v		96	70 - 130
Methyl Ethyl Ketone	10.0	9.34		ppb v/v		93	70 - 130
cis-1,2-Dichloroethene	10.0	10.6		ppb v/v		106	70 - 130
Chloroform	10.0	10.5		ppb v/v		105	70 - 130
Tetrahydrofuran	10.0	10.4		ppb v/v		104	70 - 130
1,1,1-Trichloroethane	10.0	9.97		ppb v/v		100	70 - 130
Cyclohexane	10.0	9.59		ppb v/v		96	70 - 130
Carbon tetrachloride	10.0	9.94		ppb v/v		99	70 - 130
2,2,4-Trimethylpentane	10.0	9.36		ppb v/v		94	70 - 130
Benzene	10.0	9.56		ppb v/v		96	70 - 130
1,2-Dichloroethane	10.0	9.75		ppb v/v		97	70 - 130
n-Heptane	10.0	9.09		ppb v/v		91	70 - 130
Trichloroethene	10.0	10.1		ppb v/v		101	70 - 130
Methyl methacrylate	10.0	10.1		ppb v/v		101	70 - 130

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-55927/3

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
1,2-Dichloropropane	10.0	9.90		ppb v/v		99	70 - 130
1,4-Dioxane	10.0	10.5		ppb v/v		105	70 - 130
Bromodichloromethane	10.0	10.8		ppb v/v		108	70 - 130
cis-1,3-Dichloropropene	10.0	10.4		ppb v/v		104	70 - 130
methyl isobutyl ketone	10.0	9.96		ppb v/v		100	70 - 130
Toluene	10.0	9.66		ppb v/v		97	70 - 130
trans-1,3-Dichloropropene	10.0	10.6		ppb v/v		106	70 - 130
1,1,2-Trichloroethane	10.0	9.35		ppb v/v		94	70 - 130
Tetrachloroethene	10.0	9.52		ppb v/v		95	70 - 130
Methyl Butyl Ketone (2-Hexanone)	10.0	10.9		ppb v/v		109	70 - 130
Dibromochloromethane	10.0	10.8		ppb v/v		108	70 - 130
1,2-Dibromoethane	10.0	10.1		ppb v/v		101	70 - 130
Chlorobenzene	10.0	9.86		ppb v/v		99	70 - 130
Ethylbenzene	10.0	9.86		ppb v/v		99	70 - 130
m,p-Xylene	20.0	19.7		ppb v/v		98	70 - 130
Xylene, o-	10.0	9.66		ppb v/v		97	70 - 130
Styrene	10.0	9.46		ppb v/v		95	70 - 130
Bromoform	10.0	10.9		ppb v/v		109	70 - 130
Cumene	10.0	9.90		ppb v/v		99	70 - 130
1,1,1,2-Tetrachloroethane	10.0	9.49		ppb v/v		95	70 - 130
n-Propylbenzene	10.0	10.2		ppb v/v		102	70 - 130
4-Ethyltoluene	10.0	10.4		ppb v/v		104	70 - 130
1,3,5-Trimethylbenzene	10.0	9.59		ppb v/v		96	70 - 130
2-Chlorotoluene	10.0	10.1		ppb v/v		101	70 - 130
tert-Butylbenzene	10.0	9.79		ppb v/v		98	70 - 130
1,2,4-Trimethylbenzene	10.0	9.50		ppb v/v		95	70 - 130
sec-Butylbenzene	10.0	9.76		ppb v/v		98	70 - 130
4-Isopropyltoluene	10.0	9.82		ppb v/v		98	70 - 130
1,3-Dichlorobenzene	10.0	10.1		ppb v/v		101	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ppb v/v		102	70 - 130
Benzyl chloride	10.0	10.7		ppb v/v		107	70 - 130
n-Butylbenzene	10.0	10.0		ppb v/v		100	70 - 130
1,2-Dichlorobenzene	10.0	9.43		ppb v/v		94	70 - 130
1,2,4-Trichlorobenzene	10.0	8.05		ppb v/v		81	70 - 130
Hexachlorobutadiene	10.0	8.43		ppb v/v		84	70 - 130
Naphthalene	10.0	7.68		ppb v/v		77	70 - 130
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Dichlorodifluoromethane	49	53.0		ug/m3		107	70 - 130
Freon 22	35	34.9		ug/m3		99	70 - 130
1,2-Dichlorotetrafluoroethane	70	72.9		ug/m3		104	70 - 130
Chloromethane	21	20.1		ug/m3		97	70 - 130
n-Butane	24	21.9		ug/m3		92	70 - 130
Vinyl chloride	26	25.1		ug/m3		98	70 - 130
1,3-Butadiene	22	22.1		ug/m3		100	70 - 130
Bromomethane	39	38.6		ug/m3		100	70 - 130
Chloroethane	26	24.8		ug/m3		94	70 - 130

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-55927/3

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoethene(Vinyl Bromide)	44	46.3		ug/m3		106	70 - 130
Trichlorofluoromethane	56	60.7		ug/m3		108	70 - 130
Freon TF	77	85.8		ug/m3		112	70 - 130
1,1-Dichloroethene	40	44.5		ug/m3		112	70 - 130
Acetone	24	29.9		ug/m3		126	70 - 130
Isopropyl alcohol	25	24.4		ug/m3		99	70 - 130
Carbon disulfide	31	32.1		ug/m3		103	70 - 130
3-Chloropropene	31	30.1		ug/m3		96	70 - 130
Methylene Chloride	35	36.9		ug/m3		106	70 - 130
tert-Butyl alcohol	30	31.3		ug/m3		103	70 - 130
Methyl tert-butyl ether	36	37.6		ug/m3		104	70 - 130
trans-1,2-Dichloroethene	40	39.5		ug/m3		100	70 - 130
n-Hexane	35	34.7		ug/m3		98	70 - 130
1,1-Dichloroethane	40	38.8		ug/m3		96	70 - 130
Methyl Ethyl Ketone	29	27.5		ug/m3		93	70 - 130
cis-1,2-Dichloroethene	40	41.9		ug/m3		106	70 - 130
Chloroform	49	51.5		ug/m3		105	70 - 130
Tetrahydrofuran	29	30.6		ug/m3		104	70 - 130
1,1,1-Trichloroethane	55	54.4		ug/m3		100	70 - 130
Cyclohexane	34	33.0		ug/m3		96	70 - 130
Carbon tetrachloride	63	62.5		ug/m3		99	70 - 130
2,2,4-Trimethylpentane	47	43.7		ug/m3		94	70 - 130
Benzene	32	30.5		ug/m3		96	70 - 130
1,2-Dichloroethane	40	39.4		ug/m3		97	70 - 130
n-Heptane	41	37.2		ug/m3		91	70 - 130
Trichloroethene	54	54.2		ug/m3		101	70 - 130
Methyl methacrylate	41	41.3		ug/m3		101	70 - 130
1,2-Dichloropropane	46	45.7		ug/m3		99	70 - 130
1,4-Dioxane	36	37.8		ug/m3		105	70 - 130
Bromodichloromethane	67	72.3		ug/m3		108	70 - 130
cis-1,3-Dichloropropene	45	47.2		ug/m3		104	70 - 130
methyl isobutyl ketone	41	40.8		ug/m3		100	70 - 130
Toluene	38	36.4		ug/m3		97	70 - 130
trans-1,3-Dichloropropene	45	48.0		ug/m3		106	70 - 130
1,1,2-Trichloroethane	55	51.0		ug/m3		94	70 - 130
Tetrachloroethene	68	64.5		ug/m3		95	70 - 130
Methyl Butyl Ketone (2-Hexanone)	41	44.5		ug/m3		109	70 - 130
Dibromochloromethane	85	91.8		ug/m3		108	70 - 130
1,2-Dibromoethane	77	77.6		ug/m3		101	70 - 130
Chlorobenzene	46	45.3		ug/m3		99	70 - 130
Ethylbenzene	43	42.8		ug/m3		99	70 - 130
m,p-Xylene	87	85.5		ug/m3		98	70 - 130
Xylene, o-	43	42.0		ug/m3		97	70 - 130
Styrene	43	40.3		ug/m3		95	70 - 130
Bromoform	100	112		ug/m3		109	70 - 130
Cumene	49	48.6		ug/m3		99	70 - 130
1,1,2,2-Tetrachloroethane	69	65.2		ug/m3		95	70 - 130

TestAmerica Burlington

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-55927/3

Matrix: Air

Analysis Batch: 55927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
n-Propylbenzene	49	50.0		ug/m3		102	70 - 130
4-Ethyltoluene	49	51.1		ug/m3		104	70 - 130
1,3,5-Trimethylbenzene	49	47.2		ug/m3		96	70 - 130
2-Chlorotoluene	52	52.4		ug/m3		101	70 - 130
tert-Butylbenzene	55	53.8		ug/m3		98	70 - 130
1,2,4-Trimethylbenzene	49	46.7		ug/m3		95	70 - 130
sec-Butylbenzene	55	53.6		ug/m3		98	70 - 130
4-Isopropyltoluene	55	53.9		ug/m3		98	70 - 130
1,3-Dichlorobenzene	60	60.6		ug/m3		101	70 - 130
1,4-Dichlorobenzene	60	61.3		ug/m3		102	70 - 130
Benzyl chloride	52	55.3		ug/m3		107	70 - 130
n-Butylbenzene	55	55.0		ug/m3		100	70 - 130
1,2-Dichlorobenzene	60	56.7		ug/m3		94	70 - 130
1,2,4-Trichlorobenzene	74	59.8		ug/m3		81	70 - 130
Hexachlorobutadiene	110	89.9		ug/m3		84	70 - 130
Naphthalene	52	40.2		ug/m3		77	70 - 130

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Air - GC/MS VOA

Analysis Batch: 55927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-16520-1	SG-1	Total/NA	Air	TO-15	
200-16520-2	SG-2	Total/NA	Air	TO-15	
200-16520-3	SG-3	Total/NA	Air	TO-15	
LCS 200-55927/3	Lab Control Sample	Total/NA	Air	TO-15	
MB 200-55927/4	Method Blank	Total/NA	Air	TO-15	

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Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Client Sample ID: SG-1

Date Collected: 05/15/13 10:52

Date Received: 05/17/13 10:10

Lab Sample ID: 200-16520-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	55927	05/22/13 15:31	PAD	TAL BUR

Client Sample ID: SG-2

Date Collected: 05/15/13 11:43

Date Received: 05/17/13 10:10

Lab Sample ID: 200-16520-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	55927	05/22/13 16:21	PAD	TAL BUR

Client Sample ID: SG-3

Date Collected: 05/15/13 12:15

Date Received: 05/17/13 10:10

Lab Sample ID: 200-16520-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	55927	05/22/13 17:11	PAD	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-13
L-A-B	DoD ELAP		L2336	10-26-13
Louisiana	NELAP	6	176292	06-30-13
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-13
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13
Virginia	NELAP	3	460209	12-14-13

Method Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



Sample Summary

Client: CDM Smith, Inc.
Project/Site: Cedartown

TestAmerica Job ID: 200-16520-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-16520-1	SG-1	Air	05/15/13 10:52	05/17/13 10:10
200-16520-2	SG-2	Air	05/15/13 11:43	05/17/13 10:10
200-16520-3	SG-3	Air	05/15/13 12:15	05/17/13 10:10

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TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Andrew Ronsnek Phone: 404-374-8728 Email: aronsnek@atc.com		Samples Collected By: Daniel Forbes		of 1 COCs																	
Company: CDM Smith		Address: 3715 Northside Pkwy, NW Bldg 300		EPA 25C		Other (Please specify in notes section)																	
City/State/Zip: Atlanta, GA 30327		Phone: 404-770-1400		EPA 3C		Soil Gas																	
FAX:		Site Contact: Daniel Forbes		MA-APH		Ambient Air																	
Project Name: Cedarturn		Analysis Turnaround Time		TO-16		Indoor Air																	
Site: Cedarturn, GA		Standard (Specify) 5 Day		Canister ID		Sample Type																	
PO #		Rush (Specify)		Flow Controller ID		Other (Please specify in notes section)																	
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID																
S6-1	5-15-13	1050	1052	-28.5	-5	4675	3583																
S6-2	5-15-13	1140	1143	-29.0	-5	4675	4959																
S6-3	5-15-13	1212	1215	-29.0	-5	4675	4654																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Temperature (Fahrenheit)</th> </tr> </thead> <tbody> <tr> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> <tr> <th colspan="2">Pressure (inches of Hg)</th> </tr> <tr> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> </tbody> </table>								Temperature (Fahrenheit)		Interior	Ambient	Start		Stop		Pressure (inches of Hg)		Interior	Ambient	Start		Stop	
Temperature (Fahrenheit)																							
Interior	Ambient																						
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Pressure (inches of Hg)																							
Interior	Ambient																						
Start																							
Stop																							
Special Instructions/QC Requirements & Comments:																							
Samples Shipped by: Daniel Forbes		Date/Time: 5/15/13 11630		Samples Received by: <i>Atchaf Forbes</i> 5/17/13 1010																			
Samples Relinquished by:		Date/Time:		Received by:																			
Relinquished by:		Date/Time:		Received by:																			



200-16520 COC

Lab Use Only Shipper Name: Opened by: Condition:

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FedEx NEW Package
ExpressSM US Airbill

FedEx Tracking Number
8022 5083 5023

1 From 03/10/13 Date 5-15-13

Sender's Name Daniel Forbes Phone 919 452-2648
 Company CDM Smith
 Address 5400 Glenwood Avenue
 City Raleigh State NC ZIP 27612

2 Your Internal Billing Reference

3 To Recipient's Name Test America Burlington Phone 802 640-1990

Company Sample Receiving
 Address 30 Community Drive
 City South Burlington State VT ZIP 05403



8022 5083 5023

Form ID No. **0200**

4 Express Package Service ^{*To most locations.}
 NOTE: Service order has changed. Please select carefully.
 Packages up to 150 lbs.
 over 150 lbs. use
 FedEx Express FreightSM service.

Next Business Day
 FedEx First Overnight
 Earliest next business morning delivery to select locations. Friday deliveries will be delivered on Monday unless SAT/DAY Delivery is selected.
 FedEx Priority Overnight
 Next business morning. Friday shipments will be delivered on Monday unless SAT/DAY Delivery is selected.
 FedEx Standard Overnight
 Standard delivery. Saturday Delivery NOT available.

2 or 3 Business Days
 FedEx 2Day A.M.
 Second business morning. Saturday Delivery NOT available.
 FedEx 2Day
 Second business morning. Saturday Delivery NOT available.
 FedEx Express Saver
 Standard delivery. Saturday Delivery NOT available.

5 Packaging ^{*Declared value limit \$500.}
 FedEx EnvelopeSM FedEx PakSM FedEx Box Other

6 Special Handling and Delivery Signature Options
 SATURDAY Delivery
 NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
 No Signature Required
 Signature is a separate fee for delivery.
 Direct Signature
 Signature is required for delivery. Fee applies.
 Indirect Signature
 No one is available at recipient's address to sign for delivery. Fee applies. Recipiental deliveries only. Fee applies.

Does this shipment contain dangerous goods?
 No Yes
 Yes Shipper's Declaration not required. Dry Ice (UN 1845) Cargo Aircraft Only
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or parcel in a FedEx Express bag. Dry Ice must be checked. Shipper's Declaration not required.

7 Payment Bill to:
 Sender Recipient Third Party Credit Card Cash/Check
 Enter FedEx Acct. No. or Credit Card No. below. Obtain Incep. Acct. No.

Total Packages 10 Total Weight 10 lbs.
 Credit Card Acct. 644

fedex.com 1800.GoFedEx 1800.463.3339

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 200-16520-1

Login Number: 16520

List Source: TestAmerica Burlington

List Number: 1

Creator: Poucher, Stephanie A

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	603756
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix E

VISL Calculations

OSWER VAPOR INTRUSION ASSESSMENT
Vapor Intrusion Screening Level (VISL) Calculator Version 2.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens
Average Groundwater Temperature (°C)	Tgw	19.4	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Soil Source?	Is Chemical Sufficiently Volatile and Toxic to Pose Inhalation Risk Via Vapor Intrusion from Groundwater Source?	Target Indoor Air Conc. @ TCR = 10E-06 or THQ = 1	Toxicity Basis	Target Sub-Slab and Exterior Soil Gas Conc. @ TCR = 10E-06 or THQ = 1	Target Ground Water Conc. @ TCR = 10E-06 or THQ = 1	Is Target Ground Water Conc. < MCL?	Temperature for Groundwater Vapor Conc.	Lower Explosive Limit**	LEL
		Cvp > Cia,target/AFss?	Cvp > Cia,target/AFgw?	MIN(Cia,c;Cia,nc)	C/N/C	Csg	Cgw	Cgw<MCL?	Tgw or 25	LEL	
X 75-34-3	Dichloroethane, 1,1-	Yes	Yes	1.5E+01	C	1.5E+02	8.4E+01	--	19.4	5.4	N
X 75-35-4	Dichloroethylene, 1,1-	Yes	Yes	2.1E+02	NC	2.1E+03	2.4E+02	No (7)	19.4	6.5	N
X 540-59-0	Dichloroethylene, 1,2- (Mixed isomers)	No Inhal. Tox. Info	No Inhal. Tox. Info	--	--	--	--	--	19.4		
X 156-59-2	Dichloroethylene, 1,2-cis-	No Inhal. Tox. Info	No Inhal. Tox. Info	--	--	--	--	No (70)	19.4	9.7	M
X 156-60-5	Dichloroethylene, 1,2-trans-	Yes	Yes	6.3E+01	NC	6.3E+02	4.7E+02	No (100)	19.4	9.7	M
X 71-55-6	Trichloroethane, 1,1,1-	Yes	Yes	5.2E+03	NC	5.2E+04	9.5E+03	No (200)	19.4	7.5	N
X 79-01-6	Trichloroethylene	Yes	Yes	2.1E+00	NC	2.1E+01	6.8E+00	No (5)	19.4	8	N
X 75-01-4	Vinyl Chloride	Yes	Yes	1.6E+00	C	1.6E+01	1.7E+00	Yes (2)	19.4	3.6	N

Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator	Target Indoor Air Conc. for Carcinogens @ TCR = 10E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 1
IUR		RIC		I	Cia,c	Cia,nc
(ug/m ³) ⁻¹		(mg/m ³)			(ug/m ³)	(ug/m ³)
1.60E-06	CA				1.5E+01	
		2.00E-01	I			2.1E+02
		6.00E-02	P			6.3E+01
		5.00E+00	I			5.2E+03
4.10E-06	I	2.00E-03	I	Mut	2.3E+00	2.1E+00
4.40E-06	I	1.00E-01	I	VC	1.6E+00	1.0E+02

Notes:

(1) Inhalation Pathway Exposure Parameters (RME):	Units	Residential		Commercial		Selected (based on scenario in cell E5)	
		Symbol	Value	Symbol	Value	Symbol	Value
Exposure Scenario		ATc_R	70	ATc_C	70	ATc	70
Averaging time for carcinogens	(yrs)	ATnc_R	30	ATnc_C	25	ATnc	30
Averaging time for non-carcinogens	(yrs)	ED_R	30	ED_C	25	ED	30
Exposure duration	(yrs)	EF_R	350	EF_C	250	EF	350
Exposure frequency	(days/yr)	ET_R	24	ET_C	8	ET	24
Exposure time	(hr/day)						

(2) Generic Attenuation Factors:	Source Medium of Vapors	Units	Residential		Commercial		Selected (based on scenario in cell E5)	
			Symbol	Value	Symbol	Value	Symbol	Value
Groundwater	(-)	AFgw_R	0.001	AFgw_C	0.001	AFgw	0.001	
Sub-Slab and Exterior Soil Gas	(-)	AFss_R	0.1	AFss_C	0.1	AFss	0.1	

- (3) **Formulas**
 Cia_target = MIN(Cia,c; Cia,nc)
 Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
 Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RIC x (1000 ug/mg) / (ED x EF x ET)

(4) Special Case Chemicals	Residential		Commercial		Selected (based on scenario in cell E5)	
	Symbol	Value	Symbol	Value	Symbol	Value
Trichloroethylene	mIURTCE_R	1.00E-06	mIURTCE_C	0.00E+00	mIURTCE	1.00E-06
	IURTCE_R	3.10E-06	IURTCE_C	4.10E-06	IURTCE	3.10E-06

Mutagenic Chemicals

The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Note: This section applies to trichloroethylene and other mutagenic chemicals, but not to vinyl chloride.	Age Cohort	Exposure Duration (years)	Age-dependent adjustment factor
	0 - 2 years	2	10
	2 - 6 years	4	3
	6 - 16 years	10	3
	16 - 30 years	14	1

Mutagenic-mode-of-action (MMAO) adjustment factor **76** This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride

See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

- NVT = Not sufficiently volatile and/or toxic to pose inhalation risk in selected exposure scenario for the indicated medium
- C = Carcinogenic
- NC = Non-carcinogenic
- I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: <http://www.epa.gov/iris/subst/index.html>
- P = PPRTV: EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: <http://hhpprtv.ornl.gov/pprtv.shtml>
- A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: <http://www.atsdr.cdc.gov/mrls/index.html>
- CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: <http://www.oehha.org>
- H = HEAST: EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: <http://epa-heat.ornl.gov/heat.shtml>
- S = See RSL User Guide, Section 5
- X = PPRTV Appendix
- E = The Engineering ToolBox. Available online at http://www.engineeringtoolbox.com/explosive-concentration-limits-d_423.html
- N = Centers for Disease Control and Prevention (CDC) National Institute for Occupational Safety and Health (NIOSH). Pocket Guide to Chemical Hazards. Available online at: <http://www.cdc.gov/niosh>
- M = Chemical-specific MSDS
- Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
- VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
- TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
- Yellow highlighting indicates site-specific parameters that may be edited by the user.
- Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
- **Lower explosive limit is the minimum concentration of the compound in air (% by volume) that is needed for the gas to ignite and explode.

OSWER VAPOR INTRUSION ASSESSMENT
Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator Version 2.0, November 2012 RSLs

Parameter	Symbol	Value	Instructions
Exposure Scenario	Scenario	Residential	Select residential or commercial scenario from pull down list
Target Risk for Carcinogens	TCR	1.00E-05	Enter target risk for carcinogens (for comparison to the calculated VI carcinogenic risk in column F)
Target Hazard Quotient for Non-Carcinogens	THQ	1	Enter target hazard quotient for non-carcinogens (for comparison to the calculated VI hazard in column G)
Average Groundwater Temperature (°C)	Tgw	19.4	Enter average of the stabilized groundwater temperature to correct Henry's Law Constant for groundwater target concentrations

CAS	Chemical Name	Site Groundwater Concentration	Calculated Indoor Air Concentration	VI Carcinogenic Risk	VI Hazard
		Cgw (ug/L)	Cia (ug/m ³)	CR	HQ
75-34-3	Dichloroethane, 1,1-	5.0E+00	9.06E-01	6.0E-07	No RIC
75-35-4	Dichloroethylene, 1,1-	1.6E+01	1.39E+01	No IUR	6.7E-02
540-59-0	Dichloroethylene, 1,2- (Mixed Isomers)	3.3E+02	4.26E+01	No IUR	No RIC
156-59-2	Dichloroethylene, 1,2-cis-	3.2E+02	4.18E+01	No IUR	No RIC
156-60-5	Dichloroethylene, 1,2-trans-	2.3E+01	3.04E+00	No IUR	4.5E-02
71-55-6	Trichloroethane, 1,1,1-	8.6E+01	4.70E+01	No IUR	9.0E-03
79-01-6	Trichloroethylene	4.9E+02	1.50E+02	6.4E-04	7.2E+01
75-01-4	Vinyl Chloride	3.4E+00	3.30E+00	2.0E-05	3.2E-02

Inhalation Unit Risk	IUR Source*	Reference Concentration	RFC Source*	Mutagenic Indicator
IUR (ug/m ³) ⁻¹		RIC (mg/m ³)		i
1.60E-06	CA	2.00E-01	I	
		6.00E-02	P	
		5.00E+00	I	
4.10E-06	I	2.00E-03	I	Mut
4.40E-06	I	1.00E-01	I	VC

Notes:

(1) Inhalation Pathway Exposure Parameters (RME):	Units	Residential		Commercial		Selected (based on scenario)	
		Symbol	Value	Symbol	Value	Symbol	Value
Exposure Scenario		ATc_R_GW	70	ATc_C_GW	70	ATc_GW	70
Averaging time for carcinogens (yrs)	(yrs)	ATnc_R_GW	30	ATnc_C_GW	25	ATnc_GW	30
Averaging time for non-carcinogens (yrs)	(yrs)	ED_R_GW	30	ED_C_GW	25	ED_GW	30
Exposure duration (days/yr)	(days/yr)	EF_R_GW	350	EF_C_GW	250	EF_GW	350
Exposure time (hr/day)	(hr/day)	ET_R_GW	24	ET_C_GW	8	ET_GW	24

(2) Generic Attenuation Factors:	Source Medium of Vapors	Units	Residential		Commercial		Selected (based on scenario)	
			Symbol	Value	Symbol	Value	Symbol	Value
Groundwater	(-)	AFgw_R_GW	0.001	AFgw_C_GW	0.001	AFgw_GW	0.001	
Sub-Slab and Exterior Soil Gas	(-)	AFss_R_GW	0.1	AFss_C_GW	0.1	AFss_GW	0.1	

- (3) **Formulas**
 Cia, target = MIN(Cia,c; Cia,nc)
 Cia,c (ug/m3) = TCR x ATc x (365 days/yr) x (24 hrs/day) / (ED x EF x ET x IUR)
 Cia,nc (ug/m3) = THQ x ATnc x (365 days/yr) x (24 hrs/day) x RIC x (1000 ug/mg) / (ED x EF x ET)

(4) Special Case Chemicals	Trichloroethylene	Residential		Commercial		Selected (based on scenario)	
		Symbol	Value	Symbol	Value	Symbol	Value
		mIURTCE_R_GW	1.00E-06	IURTCE_C_GW	0.00E+00	mIURTCE_GW	1.00E-06
		IURTCE_R_GW	3.10E-06	IURTCE_C_GW	4.10E-06	IURTCE_GW	3.10E-06

Mutagenic Chemicals The exposure durations and age-dependent adjustment factors for mutagenic-mode-of-action are listed in the table below:

Age Cohort	Exposure Duration	Age-dependent adjustment factor	
		0 - 2 years	2 - 6 years
0 - 2 years	2	10	3
2 - 6 years	4	3	3
6 - 16 years	10	3	1
16 - 30 years	14	1	

Mutagenic-mode-of-action (MMAO) adjustment factor 76 This factor is used in the equations for mutagenic chemicals.

Vinyl Chloride See the Navigation Guide equation for Cia,c for vinyl chloride.

Notation:

- I = IRIS: EPA Integrated Risk Information System (IRIS). Available online at: <http://www.epa.gov/iris/subst/index.html>
- P = PPRTV: EPA Provisional Peer Reviewed Toxicity Values (PPRTVs). Available online at: <http://hhpprtv.ornl.gov/pprtv.shtml>
- A = Agency for Toxic Substances and Disease Registry (ATSDR) Minimum Risk Levels (MRLs). Available online at: <http://www.atsdr.cdc.gov/mrls/index.html>
- CA = California Environmental Protection Agency/Office of Environmental Health Hazard Assessment assessments. Available online at: <http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>
- H = HEAST: EPA Superfund Health Effects Assessment Summary Tables (HEAST) database. Available online at: <http://epa-heatst.ornl.gov/heatst.shtml>
- S = See RSL User Guide, Section 5
- X = PPRTV Appendix
- Mut = Chemical acts according to the mutagenic-mode-of-action, special exposure parameters apply (see footnote (4) above).
- VC = Special exposure equation for vinyl chloride applies (see Navigation Guide for equation).
- TCE = Special mutagenic and non-mutagenic IURs for trichloroethylene apply (see footnote (4) above).
- Yellow highlighting indicates site-specific parameters that may be edited by the user.
- Blue highlighting indicates exposure factors that are based on Risk Assessment Guidance for Superfund (RAGS) or EPA vapor intrusion guidance, which generally should not be changed.
- Pink highlighting indicates VI carcinogenic risk greater than the target risk for carcinogens (TCR) or VI Hazard greater than or equal to the target hazard quotient for non-carcinogens (THQ).

