

*Prepared for:*

**CEA, LLC**  
633 Chestnut Street, Suite 1640  
Chattanooga, TN 37450

**FOURTH SEMIANNUAL VRP PROGRESS REPORT  
CAPITOL USA – DALTON FACILITY  
Dalton, Georgia**

*Prepared by:*



1050 Crown Pointe Parkway, Suite 550  
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October, 2013

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A handwritten signature in blue ink, reading "Kirk Kessler", positioned above a horizontal line.

Kirk Kessler, P.G.  
Principal

A handwritten signature in blue ink, reading "T Bullman", positioned above a horizontal line.

Timmerly Bullman, P.E.  
Senior Environmental Engineer

October 2013

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CAPITOL USA – DALTON FACILITY  
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# PROFESSIONAL GEOLOGIST CERTIFICATION

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"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

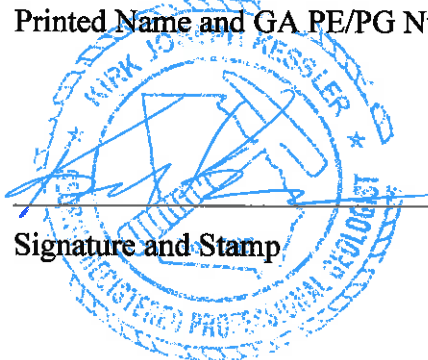
Kirk Kessler GA000685

Printed Name and GA PE/PG Number

10/1/13

Date

Signature and Stamp



# 1 INTRODUCTION

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CEA, LLC (CEA) submitted a revised application for the Voluntary Remediation Program (VRP) (which the EPD refers to as the Voluntary Investigation and Remediation Plan, VIRP) for the Capitol USA – Dalton Facility in May 2011. In a letter dated October 3, 2011, the Georgia Environmental Protection Division (EPD) accepted CEA as a participant into the VRP. Pursuant to the conditions of the acceptance letter, semiannual progress reports have been submitted since April 2012.

The Capitol Site is located at 300 Cross Plains Boulevard, Dalton, Georgia (Site). The Site is located on a total parcel of approximately 15.31 acres. The facility is currently operated by QEP Co., Inc.

This Fourth Semiannual Progress Report (Progress Report) summarizes (by task) what actions have been taken since the Third Semiannual Progress Report was submitted (April 2013) and the upcoming activities.

## **2 VRP PROJECT MANAGEMENT**

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### **2.1 Professional Geologist Oversight**

This Progress Report includes certification by the Professional Geologist (Kirk Kessler) specified in the VRP. Appendix A contains a monthly summary of hours invoiced and description of services provided.

### **2.2 Milestone Schedule**

A revised projected milestone schedule has been attached as Figure 1.

### **2.3 Conceptual Site Model**

The Conceptual Site Model (CSM) has been updated with data collected from a recent groundwater sampling event (including two newly installed wells) and demonstration of groundwater delineation. The updated CSM is included as Appendix B.

## 3 SEMIANNUAL GROUNDWATER SAMPLING

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### 3.1 Actions Completed

#### 3.1.1 Overview

The VIRP specifies that semiannual groundwater sampling will be conducted for a period of at least two years. The groundwater monitoring program consists of:

- Annual monitoring
  - Of all wells for volatile organic compounds (VOCs)
  - Of specific wells (MW-3, MW-3D, MW-4, and MW-5) for monitored natural attenuation (MNA) parameters
- Semi-annual monitoring (in between “annual monitoring” events)
  - Of specific wells (MW-3, MW-3D, MW-4, MW-5, MW-15, and MW-16) for VOCs.

In August 2013, EPS conducted the fourth groundwater sampling event. This “semi-annual” event consisted of monitoring specific wells at the site (MW-3, MW-3D, MW-4, MW-5, MW-15 and MW-16) for VOCs.

#### 3.1.2 Water Level Measurements

Prior to purging the wells, the depth to water was measured in each well. Groundwater elevations were calculated and are shown on Table 1. Figure 2 shows the groundwater elevations along with the general direction of groundwater flow, which is to the northeast. During this sampling event, the water table intersected the ground surface in one well (MW-5). This artesian condition is consistent with past measurements and occurs as a zone across the centerline of the plume. Although the groundwater table is at or above the ground surface, there is no observable pooling of groundwater at the surface. Table 1 displays the depth to groundwater measurements from 2011 through 2013. More information about the historic water levels at the site is included in the Conceptual Site Model (Appendix B).

#### 3.1.3 Methods

The sampling methods used in this event were the same as in previous events. Specifically, well purging was accomplished by low-stress purging techniques using a peristaltic pump with Teflon tubing. After purging was complete (based on the stabilization of water quality parameters), samples of the groundwater were collected using the straw method. The sample containers were placed in a cooler, at 4° C, and maintained under Chain-of-Custody until delivery to Analytical Environmental Services, Inc. of Atlanta, Georgia (AES) for analysis.

### 3.1.4 Results

In August 2013, EPS collected samples from the six wells at the Site and AES analyzed the samples for VOCs using Method 8260B. Appendix C contains the August 2013 analytical testing results and Table 2 displays a summary of the results for the detected constituents. Values that exceed the Type 1 RRS delineation criteria are highlighted in yellow.

Figures 3a, 3b, 3c, and 3d show groundwater concentrations of the chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [DCE], and vinyl chloride [VC], respectively) from this sampling event. Similarly, Figures 4a and 4b show groundwater concentrations of chlorinated ethanes<sup>1</sup> (1,1,1-Trichloroethane [1,1,1-TCA], 1,1-dichloroethane [DCA]). Similar to previous sampling events (see Appendix B for figures showing results from additional wells), groundwater exhibits the highest concentrations immediately north of the tanker truck spill area with decreasing concentrations in the direction of the groundwater flow (northeast). These figures show that the chlorinated solvent plume continues to be bounded within the property.

### 3.1.5 Groundwater Modeling

Groundwater computer models using BIOCHLOR were developed and presented in the VIRP. In an effort to conservatively model site conditions, the models were calibrated using the empirical data collected from 2004 through 2007, prior to the EHC<sup>®</sup> injections. Therefore, the models assume that there is no positive influence from the injections. The models predict estimated concentrations that are higher than seen in empirical data collected after the injections. Thus, the models conservatively estimate future concentrations.

The groundwater models were run for the year 2013 while plotting the results from the August 2013 sampling event. The results for the chlorinated ethene and chlorinated ethane models for 2013 are shown in Figure 5 and 6, respectively. The comparison of the analytical data to the modeling results in 2013 is similar to previous results. Thus, it does not appear necessary to alter the model at this point. Overall, the model continues to overestimate the concentrations of the constituents, providing a conservative assessment of future conditions. As documented in the VIRP, groundwater modeling shows that groundwater concentrations at the Point of Exposure well (MW-16) will not exceed the Type 1 RRSs in the future.

## 3.2 Upcoming Actions

CEA has completed the number of groundwater sampling events specified in the VIRP. However, CEA will conduct one additional groundwater sampling event of specific wells (MW-3, MW-3D, MW-4, MW-5, MW-7, MW-15, MW-16, and MW-1R) after completion of the source area remedial action.

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<sup>1</sup> A figure is not shown for chloroethane as it was detected in only two wells.

## 4 SOURCE REMEDIAL ACTION

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### 4.1 Previous Action

#### 4.1.1 Source Material – Remedial Extent Level

In the Third Progress Report (EPS, 2013), CEA and EPS proposed using a Remedial Extent Level (REL) to target areas for remedial action. The proposed REL is a modified soil screening level ( $SSL_{mod}$ ). The EPA's Soil Screening Level guidance equation (EPA, 1996) was used with source concentrations and soil parameters from the BIOCHLOR model. This is appropriate as the source concentrations used in the BIOCHLOR model are the highest concentrations observed historically at the site, yet the model shows that even at these concentrations the concentrations in the point-of-demonstration well will not exceed RRSs. The resulting  $SSL_{mod}$  for PCE is 7.5 mg/kg, for TCE is 7 mg/kg, and for 1,1,1-TCA is 16 mg/kg. The EPD (in a meeting held in May 2013) said it would further review the proposed RELs. Table 3 shows a comparison of the RELs and Csat to the solid aquifer matrix material. Figure 7 shows the locations where the REL is exceeded for PCE (note exceedances of 1,1,1-TCA and TCE RELs are co-located with PCE REL exceedances).

#### 4.1.2 Preliminary Source Remedial Action Plan

The Third Progress Report also contains a preliminary source remedial action plan that includes the use of in-situ chemical oxidation (ISCO) injection in the AST containment area and either ISCO or soil excavation in two areas outside of the AST containment area.

### 4.2 Upcoming Action:

#### 4.2.1 Pilot Test

In order to determine whether ISCO will be effective at the Site, EPS will conduct a pilot scale ISCO injection test. Accordingly, EPS submitted an application for an Injection Well Operating Permit in August, 2013 (application form is included in Appendix D). Once the permit has been granted, EPS will conduct the pilot test, which will include the application of RegenOx through one well. RegenOx is a proprietary oxidant containing sodium percarbonate. The injection well will be co-located with previous sample point AST-9. If appropriate areas are accessible, EPS will collect samples from two side-gradient locations near the well after application of RegenOx to evaluate the effectiveness of the application of RegenOx in terms of mass reduction.

#### **4.2.2 Uniform Environmental Covenant**

CEA has provided a draft uniform environmental covenant (UEC) to the owner of the property (Barrett Properties) for review. CEA and Barrett Properties have been discussing the elements of the UEC and CEA will be submitting a draft UEC to the EPD for review shortly.

## 5 DELINEATION

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### 5.1 Introduction

According to the EPD's VRP acceptance letter dated October 3, 2011, CEA is to demonstrate complete horizontal and vertical delineation in the April 3, 2014 Progress Report. As delineation has been finalized, this demonstration is being made in this report. The delineation criteria is the Type 1 Risk Reduction Standard (RRS) for the various constituents of concern. The final RRSs for soil and groundwater were presented in the First Semiannual Progress Report (EPS, 2012).

### 5.2 Vadose Zone Soil Delineation

As described in detail in the Conceptual Site Model (Appendix B), much of the Site has a high water table without vadose zone soils. The material under the high water table line is referred to as "solid aquifer matrix." Delineation of soil is limited to delineation within vadose zone soil. Delineation criteria are not applicable for solid aquifer matrix. However, because much of the area of interest on the Site does not have vadose zone soils, the solid aquifer matrix results are included to aid in demonstrating delineation for the vadose zone soils. Soil delineation has been demonstrated previously in the Conceptual Site Model (Appendix B), but is presented here for completeness.

Table 4 shows the analytical results (for constituents with Type 1 RRSs) for the vadose zone soil samples and the soil aquifer matrix samples that are the furthest laterally in each direction. This table shows all the results are below the delineation criteria, and the majority of the results are non-detect. Figure 8 shows the locations of these samples. This table and figure demonstrates both horizontal and vertical delineation of vadose zone soils at the Site.

### 5.3 Groundwater Delineation

Table 5 shows groundwater results collected during the last two years (since acceptance into the VRP program) compared to the delineation criteria. The well locations are shown on Figure 9. Table 5 and Figure 9 demonstrate horizontal delineation of groundwater in all directions, most importantly with MW-1R and MW-16 in the direction of groundwater flow.

Two monitoring well clusters are available to evaluate vertical delineation (MW-2/MW-2D and MW-3/MW-3D/MW-3B). A review of data from the MW-2 and MW-3 well clusters identified VOCs in both the shallow and deeper wells, with both the number of constituents and concentrations decreasing in the vertical dimension. Additionally, there is an upward vertical migration of groundwater. The tables below show the depth to groundwater measurements in each well cluster during the last three sampling events. Also shown on these tables are the range

of possible vertical gradients and the groundwater vertical flow direction as determined by the EPA's online vertical gradient calculator<sup>2</sup>.

|                      | <b>MW-2</b>                | <b>MW-2D</b> |                          |                       |
|----------------------|----------------------------|--------------|--------------------------|-----------------------|
| TOC (ft)             | 675.33                     | 674.79       |                          |                       |
| Well Depth (ft)      | 15                         | 17.3         |                          |                       |
| Screen Interval (ft) | 5-15                       | 12.3-17.3    |                          |                       |
| <b>Date</b>          | <b>Depth to Water (ft)</b> |              | <b>Vertical Gradient</b> | <b>Flow Direction</b> |
| 8/23/2012            | 6.65                       | 6.04         | 0.009 to 0.21            | Up                    |
| 2/4/2013             | Artesian                   | Artesian     | NA                       | Up                    |
| 8/5/2013             | 3.28                       | 2.57         | 0.022 – 0.5              | Up                    |

|                      | <b>MW-3</b>                | <b>MW-3D</b> | <b>MW-3B</b> |                                  |                               |
|----------------------|----------------------------|--------------|--------------|----------------------------------|-------------------------------|
| TOC (ft)             | 673.83                     | 673.87       | 674.32       |                                  |                               |
| Well Depth (ft)      | 15                         | 22.5         | 49           |                                  |                               |
| Screen Interval (ft) | 5-15                       | 17.5-22.5    | 35-45        |                                  |                               |
| <b>Date</b>          | <b>Depth to Water (ft)</b> |              |              | <b>Vertical Gradient MW-3/3B</b> | <b>Flow Direction MW-3/3B</b> |
| 8/23/2012            | 5.4                        | 5.25         | 5.29         | 0.015-0.031                      | Up                            |
| 2/4/2013             | 0.98                       | 0.75         | 0.25         | 0.031-0.062                      | Up                            |
| 8/5/2013             | 2.58                       | 2.73         | 2.45         | 0.015-0.03                       | Up                            |

TOC: Top of casing elevation (ft msl)

Based on the following conditions seen at this site, we believe that vertical delineation is adequately addressed and request EPD's concurrence:

- Upward vertical migration of groundwater
- Decreasing concentrations with depth
- Vertical condition does not affect model prediction of concentrations at the point-of-demonstration
- Source material is being addressed through additional remedial measures
- Based on the above information, there is no appreciable benefit that would be derived from installing any additional deeper wells

<sup>2</sup> <http://www.epa.gov/athens/learn2model/part-two/onsite/vgradient.html>

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## TABLES

## Capitol Adhesives

**Table 1. Depth to Groundwater Measurements 2011-2013**

|       |           | TOC<br>Elevation<br>(ft msl) | Ground<br>Elevation<br>(ft msl) | Depth to<br>Water<br>(ft btoc) | Potentiometric<br>Elevation<br>(ft msl) | Depth to GW<br>from Ground<br>Surface (ft) |
|-------|-----------|------------------------------|---------------------------------|--------------------------------|-----------------------------------------|--------------------------------------------|
| MW-1R | 8/23/2012 | 672.01                       | NM                              | 3.78                           | 668.23                                  |                                            |
|       | 2/4/2013  |                              |                                 | 0.9                            | 671.11                                  |                                            |
|       | 8/5/2013  |                              |                                 | 2.32                           | 669.69                                  |                                            |
| MW-2  | 4/22/2011 | 675.33                       | 675.51                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 6.65                           | 668.68                                  | 6.83                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 3.28                           | 672.05                                  | 3.46                                       |
| MW-2D | 4/22/2011 | 674.79                       | 675.36                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 6.00                           | 668.79                                  | 6.57                                       |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 6.04                           | 668.75                                  | 6.61                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 2.57                           | 672.22                                  | 3.14                                       |
| MW-3  | 4/22/2011 | 673.83                       | 673.87                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0.51                           | 673.32                                  | 0.55                                       |
|       | 5/6/2011  |                              |                                 | 0.71                           | 673.12                                  | 0.75                                       |
|       | 2/7/2012  |                              |                                 | 1.29                           | 672.54                                  | 1.33                                       |
|       | 8/23/2012 |                              |                                 | 5.40                           | 668.43                                  | 5.44                                       |
|       | 2/4/2013  |                              |                                 | 0.98                           | 672.85                                  | 1.02                                       |
|       | 8/5/2013  |                              |                                 | 2.58                           | 671.25                                  | 2.62                                       |
| MW-3D | 4/22/2011 | 673.87                       | 674.14                          | 0.58                           | 673.29                                  | 0.85                                       |
|       | 4/29/2011 |                              |                                 | 0.52                           | 673.35                                  | 0.79                                       |
|       | 5/6/2011  |                              |                                 | 0.74                           | 673.13                                  | 1.01                                       |
|       | 2/7/2012  |                              |                                 | 0.4                            | 673.47                                  | 0.67                                       |
|       | 8/23/2012 |                              |                                 | 5.25                           | 668.62                                  | 5.52                                       |
|       | 2/4/2013  |                              |                                 | 0.75                           | 673.12                                  | 1.02                                       |
|       | 8/5/2013  |                              |                                 | 2.73                           | 671.14                                  | 3.00                                       |
| MW-3B | 8/24/2012 | 674.32                       | NM                              | 5.29                           | 669.03                                  |                                            |
|       | 2/4/2013  |                              |                                 | 0.25                           | 674.07                                  |                                            |
|       | 8/5/2013  |                              |                                 | 2.45                           | 671.87                                  |                                            |
| MW-4  | 4/22/2011 | 671.38                       | 671.85                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 | 671.93 <sup>1</sup>          |                                 | 2.62                           | 669.31                                  | 2.54                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 0.23                           | 671.70                                  | 0.15                                       |

## Capitol Adhesives

**Table 1. Depth to Groundwater Measurements 2011-2013**

|       |           | TOC<br>Elevation<br>(ft msl) | Ground<br>Elevation<br>(ft msl) | Depth to<br>Water<br>(ft btoc) | Potentiometric<br>Elevation<br>(ft msl) | Depth to GW<br>from Ground<br>Surface (ft) |
|-------|-----------|------------------------------|---------------------------------|--------------------------------|-----------------------------------------|--------------------------------------------|
| MW-5  | 4/22/2011 | 670.88                       | 670.13                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 2.47                           | 668.41                                  | 1.72                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 0.36                           | 670.52                                  | -0.39                                      |
| MW-6  | 4/22/2011 | 674.92                       | 675.28                          | 2.42                           | 672.50                                  | 2.78                                       |
|       | 4/29/2011 |                              |                                 | 3.82                           | 671.10                                  | 4.18                                       |
|       | 5/6/2011  |                              |                                 | 3.01                           | 671.91                                  | 3.37                                       |
|       | 2/7/2012  |                              |                                 | 2.72                           | 672.20                                  | 3.08                                       |
|       | 8/23/2012 |                              |                                 | 6.36                           | 668.56                                  | 6.72                                       |
|       | 2/4/2013  |                              |                                 | 2.93                           | 671.99                                  | 3.29                                       |
|       | 8/5/2013  |                              |                                 | 4.31                           | 670.61                                  | 4.67                                       |
| MW-7  | 4/22/2011 | 675.63                       | 674.71                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0.32                           | 675.31                                  | -0.60                                      |
|       | 5/6/2011  |                              |                                 | 0.87                           | 674.76                                  | -0.05                                      |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 6.79                           | 668.84                                  | 5.87                                       |
|       | 2/4/2013  |                              |                                 | 0.25                           | 675.38                                  | -0.67                                      |
|       | 8/5/2013  |                              |                                 | 3.58                           | 672.05                                  | 2.66                                       |
| MW-8  | 4/22/2011 | 674.52                       | 674.99                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 5.82                           | 668.70                                  | 6.29                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 2.29                           | 672.23                                  | 2.76                                       |
| MW-9  | 4/22/2011 | 675.44                       | 675.80                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0.51                           | 674.93                                  | 0.87                                       |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 6.48                           | 668.96                                  | 6.84                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 3.05                           | 672.39                                  | 3.41                                       |
| MW-10 | 4/22/2011 | 675.54                       | 675.70                          | 0.43                           | 675.11                                  | 0.59                                       |
|       | 4/29/2011 |                              |                                 | 0.80                           | 674.74                                  | 0.96                                       |
|       | 5/6/2011  |                              |                                 | 1.35                           | 674.19                                  | 1.51                                       |
|       | 2/7/2012  |                              |                                 | 0.7                            | 674.84                                  | 0.86                                       |
|       | 8/23/2012 |                              |                                 | 6.33                           | 669.21                                  | 6.49                                       |
|       | 2/4/2013  |                              |                                 | 0.96                           | 674.58                                  | 1.12                                       |
|       | 8/5/2013  |                              |                                 | 3.31                           | 672.23                                  | 3.47                                       |

## Capitol Adhesives

### Table 1. Depth to Groundwater Measurements 2011-2013

|       |           | TOC<br>Elevation<br>(ft msl) | Ground<br>Elevation<br>(ft msl) | Depth to<br>Water<br>(ft btoc) | Potentiometric<br>Elevation<br>(ft msl) | Depth to GW<br>from Ground<br>Surface (ft) |
|-------|-----------|------------------------------|---------------------------------|--------------------------------|-----------------------------------------|--------------------------------------------|
| MW-11 | 4/22/2011 | 675.31                       | 675.80                          | 1.60                           | 673.71                                  | 2.09                                       |
|       | 4/29/2011 |                              |                                 | 2.08                           | 673.23                                  | 2.57                                       |
|       | 5/6/2011  |                              |                                 | 2.42                           | 672.89                                  | 2.91                                       |
|       | 2/7/2012  |                              |                                 | 1.92                           | 673.39                                  | 2.41                                       |
|       | 8/23/2012 |                              |                                 | --                             | Artesian                                |                                            |
|       | 2/4/2013  |                              |                                 | 2.18                           | 673.13                                  | 2.67                                       |
|       | 8/5/2013  |                              |                                 | 4.00                           | 671.31                                  | 4.49                                       |
| MW-12 | 4/22/2011 | 675.76                       | 675.76                          | 3.32                           | 672.44                                  | 3.32                                       |
|       | 4/29/2011 |                              |                                 | 3.29                           | 672.47                                  | 3.29                                       |
|       | 5/6/2011  |                              |                                 | 3.53                           | 672.23                                  | 3.53                                       |
|       | 2/7/2012  |                              |                                 | 3.36                           | 672.40                                  | 3.36                                       |
|       | 8/23/2012 |                              |                                 | 6.92                           | 668.84                                  | 6.92                                       |
|       | 2/4/2013  |                              |                                 | 3.51                           | 672.25                                  | 3.51                                       |
|       | 8/5/2013  |                              |                                 | 4.85                           | 670.91                                  | 4.85                                       |
| MW-13 | 4/22/2011 | 676.70                       | 677.06                          | 1.80                           | 674.90                                  | 2.16                                       |
|       | 4/29/2011 |                              |                                 | 2.53                           | 674.17                                  | 2.89                                       |
|       | 5/6/2011  |                              |                                 | 3.23                           | 673.47                                  | 3.59                                       |
|       | 2/7/2012  |                              |                                 | 2.24                           | 674.46                                  | 2.60                                       |
|       | 8/23/2012 |                              |                                 | 8.53                           | 668.17                                  | 8.89                                       |
|       | 2/4/2013  |                              |                                 | 2.35                           | 674.35                                  | 2.71                                       |
|       | 8/5/2013  |                              |                                 | 5.65                           | 671.05                                  | 6.01                                       |
| MW-14 | 4/22/2011 | 673.05                       | 673.36                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0.45                           | 672.60                                  | 0.76                                       |
|       | 5/6/2011  |                              |                                 | 0.75                           | 672.30                                  | 1.06                                       |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 5.00                           | 668.05                                  | 5.31                                       |
|       | 2/4/2013  |                              |                                 | 0.25                           | 672.80                                  | 0.56                                       |
|       | 8/5/2013  |                              |                                 | 2.71                           | 670.34                                  | 3.02                                       |
| MW-15 | 4/22/2011 | 670.91                       | 671.33                          | 0                              | Artesian                                | 0                                          |
|       | 4/29/2011 |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 5/6/2011  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 2/7/2012  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/23/2012 |                              |                                 | 3.07                           | 667.84                                  | 3.49                                       |
|       | 2/4/2013  |                              |                                 | 0                              | Artesian                                | 0                                          |
|       | 8/5/2013  |                              |                                 | 1.34                           | 669.57                                  | 1.76                                       |
| MW-16 | 4/22/2011 | 669.70                       | 670.24                          | 0.13                           | 669.58                                  | 0.66                                       |
|       | 4/29/2011 |                              |                                 | 0.45                           | 669.25                                  | 0.99                                       |
|       | 5/6/2011  |                              |                                 | 0.69                           | 669.01                                  | 1.23                                       |
|       | 2/7/2012  |                              |                                 | 0.3                            | 669.40                                  | 0.84                                       |
|       | 8/23/2012 |                              |                                 | 2.62                           | 667.08                                  | 3.16                                       |
|       | 2/4/2013  |                              |                                 | 0.25                           | 669.45                                  | 0.79                                       |
|       | 8/5/2013  |                              |                                 | 2.07                           | 667.63                                  | 2.61                                       |

## Capitol Adhesives

**Table 1. Depth to Groundwater Measurements 2011-2013**

|       |           | <b>TOC<br/>Elevation<br/>(ft msl)</b> | <b>Ground<br/>Elevation<br/>(ft msl)</b> | <b>Depth to<br/>Water<br/>(ft btoc)</b> | <b>Potentiometric<br/>Elevation<br/>(ft msl)</b> | <b>Depth to GW<br/>from Ground<br/>Surface (ft)</b> |
|-------|-----------|---------------------------------------|------------------------------------------|-----------------------------------------|--------------------------------------------------|-----------------------------------------------------|
| MW-17 | 4/22/2011 | 676.26                                | NM                                       | 0.72                                    | 675.54                                           |                                                     |
|       | 4/29/2011 |                                       |                                          | 1.18                                    | 675.08                                           |                                                     |
|       | 5/6/2011  |                                       |                                          | 1.50                                    | 674.76                                           |                                                     |
|       | 2/7/2012  |                                       |                                          | 0.88                                    | 675.38                                           |                                                     |
|       | 8/23/2012 |                                       |                                          | --                                      | Artesian                                         |                                                     |
|       | 2/4/2013  |                                       |                                          | 1.24                                    | 675.02                                           |                                                     |
|       | 8/5/2013  |                                       |                                          | 3                                       | 672.97                                           |                                                     |

NM - not measured

1) Top of casing re-surveyed after the well was repaired.

## Capitol Adhesives

**Table 2. Analytical Results for Constituents Detected in Groundwater - August 2013 Sampling Event (mg/L)**

| Well              | Date Sampled | Tetra chloro ethene (mg/L) | Trichloro ethene (mg/L) | cis-1,2-Dichloro ethene (mg/L) | Vinyl chloride (mg/L) | Total Chlorinated Ethenes (mg/L) | 1,1,1-Trichloroethane (mg/L) | 1,1-Dichloro ethane (mg/L) | Chloro ethane (mg/L) | Total Chlorinated Ethanes (mg/L) |
|-------------------|--------------|----------------------------|-------------------------|--------------------------------|-----------------------|----------------------------------|------------------------------|----------------------------|----------------------|----------------------------------|
| <b>Type 1 RRS</b> |              | <b>0.005</b>               | <b>0.005</b>            | <b>0.07</b>                    | <b>0.002</b>          |                                  | <b>0.2</b>                   | <b>4</b>                   | <b>DL</b>            |                                  |
| MW-3              | 8/6/13       | <b>2.9</b>                 | <b>4.8</b>              | <b>2.3</b>                     | <b>0.23</b>           | 10.23                            | <b>0.47</b>                  | 0.32                       | <0.01                | 11.0                             |
| MW-3 (Dup)        | 8/6/13       | <b>2.9</b>                 | <b>4.9</b>              | <b>2.3</b>                     | <b>0.23</b>           | 10.33                            | <b>0.45</b>                  | 0.32                       | <0.01                | 11.1                             |
| MW-3D             | 8/6/13       | <b>2.9</b>                 | <b>4.8</b>              | <b>2.9</b>                     | <b>0.28</b>           | 10.88                            | <b>0.53</b>                  | 0.28                       | <b>0.011</b>         | 11.7                             |
| MW-4              | 8/5/13       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                       | <0.005                     | <0.01                | ND                               |
| MW-5              | 8/6/13       | <0.005                     | <b>0.0052</b>           | <b>0.11</b>                    | <b>0.14</b>           | 0.2552                           | 0.0068                       | 0.081                      | <b>0.062</b>         | 0.41                             |
| MW-15             | 8/6/13       | <0.005                     | <b>0.02</b>             | 0.029                          | <b>0.0058</b>         | 0.0548                           | <0.005                       | 0.0057                     | <0.01                | 0.061                            |
| MW-16             | 8/5/13       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                       | <0.005                     | <0.01                | ND                               |

ND: Not detected

Result greater than Type 1 RRS

# Capitol Adhesives

**Table 2. Analytical Results for Constituents Detected in Groundwater - August 2013 Sampling Event (mg/L)**

| Well              | Date Sampled | 1,1,2-Trichloroethane (mg/L) | 1,1-Dichloroethene (mg/L) | 1,2-Dichloroethane (mg/L) | Acetone (mg/L) | Benzene (mg/L) | Chloroform (mg/L) | Dichloromethane (Methylene chloride) (mg/L) | Freon-113 (mg/L) | Methylcyclohexane (mg/L) | m&p-Xylene (mg/L) | o-Xylene (mg/L) | Toluene (mg/L) | trans-1,2-Dichloroethene (mg/L) |
|-------------------|--------------|------------------------------|---------------------------|---------------------------|----------------|----------------|-------------------|---------------------------------------------|------------------|--------------------------|-------------------|-----------------|----------------|---------------------------------|
| <b>Type 1 RRS</b> |              | <b>0.005</b>                 | <b>0.007</b>              | <b>0.005</b>              | <b>4</b>       | <b>0.005</b>   | <b>0.08</b>       | <b>0.005</b>                                | <b>1000</b>      | <b>DL</b>                | <b>10</b>         | <b>10</b>       | <b>1</b>       | <b>0.1</b>                      |
| MW-3              | 8/6/13       | <b>0.025</b>                 | <b>1.6</b>                | <b>0.66</b>               | 0.39           | <b>0.007</b>   | <b>0.7</b>        | <b>0.0063</b>                               | 0.18             | <b>0.022</b>             | 0.013             | 0.007           | 0.12           | <0.005                          |
| MW-3(Dup)         | 8/6/13       | <b>0.021</b>                 | <b>1.6</b>                | <b>0.67</b>               | 0.29           | <b>0.0066</b>  | <b>0.72</b>       | <b>0.0056</b>                               | 0.15             | <b>0.017</b>             | 0.011             | 0.0065          | 0.11           | <0.005                          |
| MW-3D             | 8/6/13       | <b>0.017</b>                 | <b>0.87</b>               | <b>0.41</b>               | 0.1            | <0.005         | <b>0.36</b>       | <b>0.027</b>                                | 0.13             | <b>0.051</b>             | 0.026             | 0.02            | 0.063          | 0.0073                          |
| MW-4              | 8/5/13       | <0.005                       | <0.005                    | <0.005                    | <0.05          | <0.005         | <0.005            | <0.005                                      | <0.01            | <0.005                   | <0.005            | <0.005          | <0.005         | <0.005                          |
| MW-5              | 8/6/13       | <0.005                       | <b>0.013</b>              | <b>0.047</b>              | <0.05          | <0.005         | 0.006             | <0.005                                      | <0.01            | <0.005                   | 0.0056            | <0.005          | 0.018          | <0.005                          |
| MW-15             | 8/6/13       | <0.005                       | <b>0.014</b>              | <0.005                    | <0.05          | <0.005         | <0.005            | <0.005                                      | <0.01            | <0.005                   | <0.005            | <0.005          | <0.005         | <0.005                          |
| MW-16             | 8/5/13       | <0.005                       | <0.005                    | <0.005                    | <0.05          | <0.005         | <0.005            | <0.005                                      | <0.01            | <0.005                   | <0.005            | <0.005          | <0.005         | <0.005                          |

ND: Not detected

  Result greater than Type 1 RRS

## Capitol Adhesives

**Table 3. Comparison of Solid Aquifer Matrix Material to SSL<sub>mod</sub>**

| Sample ID                            | Depth<br>(ft bgs) | Date<br>Sampled | Tetrachloroethene<br>(mg/kg) | Trichloroethene<br>(mg/kg) | 1,1,1-<br>Trichloroethane<br>(mg/kg) |
|--------------------------------------|-------------------|-----------------|------------------------------|----------------------------|--------------------------------------|
| <b>SSL<sub>mod</sub> (mg/kg)</b>     |                   |                 | <b>7.5</b>                   | <b>7.0</b>                 | <b>16.0</b>                          |
| <b>Maximum Concentration (mg/kg)</b> |                   |                 | <b>2700</b>                  | <b>200</b>                 | <b>66</b>                            |
| <b>Solid Aquifer Matrix</b>          |                   |                 |                              |                            |                                      |
| GP001                                | 6-8               | 8/9/05          | <0.0054                      | <0.0054                    | <0.0054                              |
| GP002                                | 4-6               | 8/9/05          | <0.0049                      | <0.0049                    | <0.0049                              |
| GP003                                | 2-4               | 8/9/05          | <0.0048                      | <0.0048                    | <0.0048                              |
| GP004                                | 4-6               | 8/9/05          | <0.004                       | <0.004                     | <0.004                               |
| GP005                                | 4-6               | 8/9/05          | <0.0045                      | <0.0045                    | <0.0045                              |
| GP006                                | 2-4               | 8/9/05          | <0.0046                      | <0.0046                    | <0.0046                              |
| GP009                                | 2-4               | 8/10/05         | <0.0043                      | <0.0043                    | <0.0043                              |
| GP010                                | 4-6               | 8/10/05         | 0.13                         | 0.33                       | 0.15                                 |
| GP011                                | 2-4               | 8/10/05         | 0.13                         | 0.63                       | <0.061                               |
| GP012                                | 4-6               | 8/10/05         | 1.5                          | 1.8                        | 0.41                                 |
| GP013                                | 4-6               | 8/10/05         | <0.0052                      | <0.0052                    | <0.0052                              |
| MIP-1                                | 2                 | 10/16/08        | <b>15</b>                    | <b>12</b>                  | 0.2                                  |
| MIP-1                                | 5                 | 10/16/08        | 0.036                        | 0.02                       | <0.0067                              |
| MIP-1                                | 9                 | 10/16/08        | 0.024                        | 0.0052                     | <0.0029                              |
| MIP-5                                | 3                 | 10/16/08        | <0.0022                      | <0.0022                    | <0.0022                              |
| MIP-6                                | 6                 | 10/16/08        | <0.008                       | <0.008                     | <0.008                               |
| MIP-8                                | 2                 | 10/16/08        | 0.37                         | 2.4                        | 0.014                                |
| MIP-8                                | 4                 | 10/16/08        | 0.091                        | 0.2                        | <0.007                               |
| MIP-12                               | 12                | 10/16/08        | 0.73                         | 0.38                       | 0.13                                 |
| MIP-12                               | 4                 | 10/16/08        | <0.0069                      | <0.0069                    | <0.0069                              |
| MIP-12                               | 6                 | 10/16/08        | <0.0076                      | <0.0076                    | <0.0076                              |
| MIP-13                               | 1                 | 10/16/08        | 0.0087                       | <0.0038                    | <0.0038                              |
| MIP-13                               | 3                 | 10/16/08        | 0.0069                       | 0.0093                     | 0.0034                               |
| MIP-13                               | 6                 | 10/16/08        | 1.5                          | 2.6                        | 0.42                                 |
| MIP-19                               | 1                 | 10/16/08        | <0.0059                      | <0.0059                    | <0.0059                              |
| MIP-19                               | 3                 | 10/16/08        | <0.0071                      | <0.0071                    | <0.0071                              |
| MW-1D                                | 8-10              | 7/13/04         | <0.0019                      | <0.0019                    | <0.0019                              |
| MW-2D                                | 8-10              | 7/13/04         | <0.0017                      | <0.0017                    | <0.0017                              |
| MW-3                                 | 8-10              | 7/14/04         | 0.0191                       | 0.0138                     | 0.0312                               |
| MW-3D                                | 13-15             | 7/14/04         | 2.44                         | 1.31                       | 0.416                                |
| MW-8                                 | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                               |
| MW-9                                 | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                               |
| MW-10                                | 5-10              | 7/7/06          | <0.005                       | 0.006                      | <0.005                               |
| MW-11                                | 5-10              | 7/6/06          | <0.005                       | 0.008                      | <0.005                               |
| MW-12                                | 5-10              | 7/6/06          | <0.005                       | <0.005                     | <0.005                               |
| MW-13                                | 13-15             | 6/27/06         | <0.005                       | <0.005                     | <0.005                               |
| MW-14                                | 13-15             | 6/27/06         | <0.005                       | <0.005                     | <0.005                               |
| MW-15                                | 8-10              | 6/28/06         | <0.005                       | <0.005                     | <0.005                               |
| MW-16                                | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                               |

## Capitol Adhesives

**Table 3. Comparison of Solid Aquifer Matrix Material to SSL<sub>mod</sub>**

| Sample ID                     | Depth<br>(ft bgs) | Date<br>Sampled | Tetrachloroethene<br>(mg/kg) | Trichloroethene<br>(mg/kg) | 1,1,1-<br>Trichloroethane<br>(mg/kg) |
|-------------------------------|-------------------|-----------------|------------------------------|----------------------------|--------------------------------------|
| SSL <sub>mod</sub> (mg/kg)    |                   |                 | 7.5                          | 7.0                        | 16.0                                 |
| Maximum Concentration (mg/kg) |                   |                 | 2700                         | 200                        | 66                                   |
| SB-1                          | 1                 | 2/20/13         | 1.3                          | 0.02                       | <0.0033                              |
| SB-1 (Dup)                    | 1                 | 2/20/13         | 5                            | 0.016                      | <0.0038                              |
| SB-1                          | 2                 | 2/20/13         | 0.053                        | <0.006                     | <0.006                               |
| SB-1                          | 4                 | 2/20/13         | 0.079                        | 0.012                      | <0.0062                              |
| SB-2                          | 1                 | 2/20/13         | 0.05                         | <0.0029                    | <0.0029                              |
| SB-2                          | 2                 | 2/20/13         | <0.0029                      | 0.011                      | <0.0029                              |
| SB-2                          | 4                 | 2/20/13         | <0.0029                      | <0.0029                    | <0.0029                              |
| SB-3                          | 1                 | 2/20/13         | 0.0042                       | <0.0039                    | <0.0039                              |
| SB-3                          | 2                 | 2/20/13         | 0.0077                       | <0.0031                    | <0.0031                              |
| SB-3                          | 4                 | 2/20/13         | 0.0065                       | <0.004                     | <0.004                               |
| SB-4                          | 1                 | 2/20/13         | 1.3                          | 0.053                      | 0.023                                |
| SB-4                          | 2                 | 2/20/13         | 0.0085                       | <0.0034                    | <0.0034                              |
| SB-4                          | 4                 | 2/20/13         | <0.0036                      | <0.0036                    | <0.0036                              |
| SB-5                          | 1                 | 2/20/13         | 0.84                         | 0.63                       | 0.0046                               |
| SB-5                          | 2                 | 2/20/13         | 1.1                          | 0.6                        | 0.009                                |
| SB-5                          | 4                 | 2/20/13         | 0.99                         | 0.63                       | 0.024                                |
| SB-6                          | 1                 | 2/20/13         | <0.0031                      | <0.0031                    | <0.0031                              |
| SB-6                          | 2                 | 2/20/13         | <0.0038                      | <0.0038                    | <0.0038                              |
| SB-6                          | 4                 | 2/20/13         | <0.004                       | <0.004                     | <0.004                               |
| SB-7                          | 1                 | 2/20/13         | 0.009                        | <0.0037                    | <0.0037                              |
| SB-7                          | 2                 | 2/20/13         | <0.0065                      | <0.0065                    | <0.0065                              |
| SB-7                          | 4                 | 2/20/13         | <0.0036                      | <0.0036                    | <0.0036                              |
| SB-8                          | 1                 | 2/20/13         | 0.021                        | 0.071                      | <0.0025                              |
| SB-8                          | 2                 | 2/20/13         | 0.023                        | 0.18                       | <0.0028                              |
| SB-8                          | 4                 | 2/20/13         | <0.18                        | 0.51                       | <0.18                                |
| SB-9                          | 1                 | 2/20/13         | 0.0051                       | 0.016                      | <0.0036                              |
| SB-9                          | 2                 | 2/20/13         | 0.017                        | 0.065                      | <0.0048                              |
| SB-9                          | 4                 | 2/20/13         | 0.0074                       | 0.03                       | <0.0043                              |
| SO-2                          | 1                 | 3/10/09         | <0.0029                      | <0.0029                    | <0.0029                              |
| SO-2                          | 3                 | 3/10/09         | 0.098                        | 0.11                       | 0.0064                               |
| SO-3                          | 1                 | 3/10/09         | 2700                         | 62                         | 5.3                                  |
| SO-3                          | 3                 | 3/10/09         | 23                           | 4.9                        | <2.4                                 |
| SO-4                          | 1                 | 3/10/09         | 0.74                         | 1.2                        | <0.0032                              |
| SO-4                          | 3                 | 3/10/09         | 0.93                         | 1.6                        | <0.11                                |
| SO-5                          | 5                 | 3/10/09         | 0.39                         | 0.35                       | 0.07                                 |
| SO-5                          | 9                 | 3/10/09         | <0.0062                      | <0.0062                    | <0.0062                              |
| SO-6                          | 5                 | 3/10/09         | 0.066                        | 0.089                      | 0.01                                 |
| SO-7                          | 3                 | 3/10/09         | 1.9                          | 2.4                        | 0.072                                |
| SO-10                         | 1                 | 10/12/10        | 43                           | 16                         | 7.2                                  |

## Capitol Adhesives

**Table 3. Comparison of Solid Aquifer Matrix Material to SSL<sub>mod</sub>**

| Sample ID                            | Depth<br>(ft bgs) | Date<br>Sampled | Tetrachloroethene<br>(mg/kg) | Trichloroethene<br>(mg/kg) | 1,1,1-<br>Trichloroethane<br>(mg/kg) |
|--------------------------------------|-------------------|-----------------|------------------------------|----------------------------|--------------------------------------|
| <b>SSL<sub>mod</sub> (mg/kg)</b>     |                   |                 | <b>7.5</b>                   | <b>7.0</b>                 | <b>16.0</b>                          |
| <b>Maximum Concentration (mg/kg)</b> |                   |                 | <b>2700</b>                  | <b>200</b>                 | <b>66</b>                            |
| SS-AST-1                             | 1                 | 1/12/09         | 7.09                         | 0.159                      | 0.0805                               |
| SS-AST-2                             | 1                 | 1/12/09         | <b>12.2</b>                  | <b>7.75</b>                | 1.11                                 |
| SS-AST-3                             | 1                 | 7/23/12         | 0.11                         | 0.058                      | <0.003                               |
| SS-AST-3                             | 2                 | 7/23/12         | 0.35                         | 0.18                       | <0.0032                              |
| SS-AST-4                             | 1                 | 7/23/12         | 0.0047                       | <0.0028                    | <0.0028                              |
| SS-AST-4                             | 2                 | 7/23/12         | 0.0042                       | <0.0033                    | <0.0033                              |
| SS-AST-5                             | 1                 | 7/23/12         | 0.0039                       | <0.0027                    | <0.0027                              |
| SS-AST-5                             | 2                 | 7/23/12         | 0.011                        | <0.0032                    | <0.0032                              |
| SS-AST-6                             | 1                 | 7/23/12         | 0.039                        | 0.0088                     | 0.0035                               |
| SS-AST-6                             | 2                 | 7/23/12         | 0.047                        | 0.011                      | <0.0033                              |
| SS-AST-7                             | 1                 | 7/23/12         | 0.013                        | 0.0096                     | <0.003                               |
| SS-AST-7                             | 2                 | 7/23/12         | 0.014                        | 0.0086                     | <0.0031                              |
| SS-AST-8                             | 1                 | 7/23/12         | <b>64</b>                    | <b>58</b>                  | <b>66</b>                            |
| SS-AST-8                             | 2                 | 7/23/12         | 6.5                          | <b>13</b>                  | 4.7                                  |
| SS-AST-9                             | 1                 | 7/23/12         | <b>380</b>                   | <b>34</b>                  | 2.1                                  |
| SS-AST-9                             | 2                 | 7/23/12         | <b>660</b>                   | <b>97</b>                  | 15                                   |
| SS-AST-10                            | 1                 | 7/23/12         | 0.0054                       | <0.0029                    | <0.0029                              |
| SS-AST-10                            | 2                 | 7/23/12         | 0.02                         | 0.01                       | <0.0033                              |
| SS-AST-10 (Dup)                      | 1                 | 7/23/12         | 0.058                        | 0.018                      | 0.0043                               |
| SS-AST-11                            | 1                 | 7/23/12         | 0.0095                       | 0.0061                     | <0.0028                              |
| SS-AST-11                            | 2                 | 7/23/12         | 0.013                        | 0.008                      | <0.0034                              |
| SS-BLDG-1                            | 1                 | 1/12/09         | <0.0024                      | <0.0024                    | <0.0024                              |
| SS-BLDG-1                            | 5                 | 1/12/09         | <0.00284                     | <0.00284                   | <0.00284                             |
| SS-BLDG-2                            | 5                 | 1/12/09         | <0.00349                     | <0.00349                   | <0.00349                             |
| SS-BLDG-5                            | 1                 | 1/12/09         | <0.00247                     | <0.00247                   | <0.00247                             |
| SS-BLDG-6                            | 1                 | 1/12/09         | 0.0037                       | 0.00288                    | <0.00246                             |
| SS-HA-1                              | 1                 | 1/12/09         | 0.0108                       | <0.00284                   | <0.00284                             |
| SS-HA-2                              | 1                 | 1/12/09         | 0.0139                       | <0.00325                   | <0.00325                             |
| <b>Vadose Zone Soil</b>              |                   |                 |                              |                            |                                      |
| GP007                                | 2-4               | 8/9/05          | <0.0045                      | <0.0045                    | <0.0045                              |
| GP008                                | 2-4               | 8/9/05          | <0.0054                      | <0.0054                    | <0.0054                              |
| SS-BLDG-2                            | 1                 | 1/12/09         | <0.00268                     | <0.00268                   | <0.00268                             |
| SS-BLDG-3                            | 1                 | 1/12/09         | <0.00301                     | <0.00301                   | <0.00301                             |
| SS-BLDG-4                            | 1                 | 1/12/09         | <0.00299                     | 0.161                      | <0.00299                             |
| <b>Other (sediment)</b>              |                   |                 |                              |                            |                                      |
| South Ditch                          | 0-2               | 6/19/04         | <0.0064                      | 0.012                      | <0.0064                              |

Exceeds SSL<sub>mod</sub>

Matrix: Vadose Zone Soil - sample collected above or at the high water table mark

Solid Aquifer Matrix - sample collected below the high water table mark

**Capitol Adhesives**  
**Table 4. Vadose Zone Soil Delineation**

| Sample ID                                | Depth<br>(ft bgs) | Date<br>Sampled | Tetrachloroethene<br>(mg/kg) | Trichloroethene<br>(mg/kg) | cis-1,2-Dichloroethene<br>(mg/kg) | Vinyl chloride<br>(mg/kg) | 1,1,1-Trichloroethane<br>(mg/kg) | 1,1-Dichloroethane<br>(mg/kg) | Chloroethane<br>(mg/kg) | 1,1,2-Trichloroethane<br>(mg/kg) | 1,1-Dichloroethene<br>(mg/kg) | 1,2-Dichloroethane<br>(mg/kg) | 1,2-Dichloropropane<br>(mg/kg) | 1,4-Dioxane<br>(mg/kg) |
|------------------------------------------|-------------------|-----------------|------------------------------|----------------------------|-----------------------------------|---------------------------|----------------------------------|-------------------------------|-------------------------|----------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------|
| <b>Delineation Criteria (Type I RRS)</b> |                   |                 | 0.5                          | 0.5                        | 7                                 | 0.2                       | 20                               | 0.7                           | 0.17                    | 0.5                              | 400                           | 0.5                           | 0.5                            | 7                      |
| <b>Maximum Detected Conc</b>             |                   |                 | ND                           | 0.161                      | 0.005                             | ND                        | ND                               | ND                            | ND                      | ND                               | ND                            | ND                            | ND                             | ND                     |
| <b>Vadose Zone Soil</b>                  |                   |                 |                              |                            |                                   |                           |                                  |                               |                         |                                  |                               |                               |                                |                        |
| GP007                                    | 2-4               | 8/9/05          | <0.0045                      | <0.0045                    | <0.0045                           |                           | <0.0045                          |                               |                         |                                  | <0.0045                       | <0.0045                       | <4.5                           |                        |
| GP008                                    | 2-4               | 8/9/05          | <0.0054                      | <0.0054                    | <0.0054                           |                           | <0.0054                          |                               |                         |                                  | <0.0054                       | <0.0054                       | <5.4                           |                        |
| SS-BLDG-2                                | 1                 | 1/12/09         | <0.00268                     | <0.00268                   | <0.00268                          | <0.00536                  | <0.00268                         | <0.00268                      | <0.00536                | <0.00268                         | <0.00268                      | <0.00268                      | <0.00268                       | NA                     |
| SS-BLDG-3                                | 1                 | 1/12/09         | <0.00301                     | <0.00301                   | <0.00301                          | <0.00602                  | <0.00301                         | <0.00301                      | <0.00602                | <0.00301                         | <0.00301                      | <0.00301                      | <0.00301                       | NA                     |
| SS-BLDG-4                                | 1                 | 1/12/09         | <0.00299                     | 0.161                      | <0.00299                          | <0.00598                  | <0.00299                         | <0.00299                      | <0.00598                | <0.00299                         | <0.00299                      | <0.00299                      | <0.00299                       | NA                     |
| <b>Solid Aquifer Matrix</b>              |                   |                 |                              |                            |                                   |                           |                                  |                               |                         |                                  |                               |                               |                                |                        |
| GP001                                    | 6-8               | 8/9/05          | <0.0054                      | <0.0054                    | <0.0054                           |                           | <0.0054                          |                               |                         |                                  | <0.0054                       | <0.0054                       | <5.4                           |                        |
| GP002                                    | 4-6               | 8/9/05          | <0.0049                      | <0.0049                    | <0.0049                           |                           | <0.0049                          |                               |                         |                                  | <0.0049                       | <0.0049                       | <4.9                           |                        |
| GP003                                    | 2-4               | 8/9/05          | <0.0048                      | <0.0048                    | <0.0048                           |                           | <0.0048                          |                               |                         |                                  | <0.0048                       | <0.0048                       | <4.8                           |                        |
| GP004                                    | 4-6               | 8/9/05          | <0.004                       | <0.004                     | <0.004                            |                           | <0.004                           |                               |                         |                                  | <0.004                        | <0.004                        | <4                             |                        |
| GP005                                    | 4-6               | 8/9/05          | <0.0045                      | <0.0045                    | <0.0045                           |                           | <0.0045                          |                               |                         |                                  | <0.0045                       | <0.0045                       | <4.5                           |                        |
| GP006                                    | 2-4               | 8/9/05          | <0.0046                      | <0.0046                    | <0.0046                           |                           | <0.0046                          |                               |                         |                                  | <0.0046                       | <0.0046                       | <4.6                           |                        |
| GP013                                    | 4-6               | 8/10/05         | <0.0052                      | <0.0052                    | <0.0052                           |                           | <0.0052                          |                               |                         |                                  | <0.0052                       | <0.0052                       | <5.2                           |                        |
| MIP-5                                    | 3                 | 10/16/08        | <0.0022                      | <0.0022                    | <0.0022                           | <0.0045                   | <0.0022                          | <0.0022                       | <0.0045                 | <0.0022                          | <0.0022                       | <0.0022                       | <0.0022                        | <0.067                 |
| MW-10                                    | 5-10              | 7/7/06          | <0.005                       | 0.006                      | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-11                                    | 5-10              | 7/6/06          | <0.005                       | 0.008                      | 0.005                             | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-12                                    | 5-10              | 7/6/06          | <0.005                       | <0.005                     | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-13                                    | 13-15             | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-16                                    | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-8                                     | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |
| MW-9                                     | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | <0.005                           | <0.005                        | <0.01                   | <0.005                           | <0.005                        | <0.005                        | <5                             | NA                     |

NA: Not analyzed

ND: Not detected

Matrix: Vadose Zone Soil - sample collected above or at the high water table mark

Solid Aquifer Matrix - sample collected below the high water table mark

**Capitol Adhesives**  
**Table 4. Vadose Zone Soil Delineation**

| Sample ID                                | Depth (ft bgs) | Date Sampled | 2-Butanone (MEK) (mg/kg) | Acetone (mg/kg) | Benzene (mg/kg) | Chloroform (mg/kg) | Cyclo hexane (mg/kg) | Dichloro methane (Methylene chloride) (mg/kg) | Ethyl benzene (mg/kg) | Freon-11 (Trichlorofluoromethane) (mg/kg) | Freon-113 (mg/kg) | Toluene (mg/kg) | trans-1,2-Dichloro ethene (mg/kg) |
|------------------------------------------|----------------|--------------|--------------------------|-----------------|-----------------|--------------------|----------------------|-----------------------------------------------|-----------------------|-------------------------------------------|-------------------|-----------------|-----------------------------------|
| <b>Delineation Criteria (Type I RRS)</b> |                |              | 200                      | 400             | 0.5             | 3.9                | 20                   | 0.5                                           | 70                    | 200                                       | 24,039            | 100             | 10                                |
| <b>Maximum Detected Conc</b>             |                |              | ND                       | ND              | ND              | ND                 | ND                   | ND                                            | ND                    | ND                                        | ND                | ND              | ND                                |
| <b>Vadose Zone Soil</b>                  |                |              |                          |                 |                 |                    |                      |                                               |                       |                                           |                   |                 |                                   |
| GP007                                    | 2-4            | 8/9/05       |                          |                 |                 | <0.0045            |                      | <0.0045                                       | <0.0045               |                                           |                   | <0.0045         |                                   |
| GP008                                    | 2-4            | 8/9/05       |                          |                 |                 | <0.0054            |                      | <0.0054                                       | <0.0054               |                                           |                   | <0.0054         |                                   |
| SS-BLDG-2                                | 1              | 1/12/09      | <0.0268                  | <0.0536         | <0.00268        | <0.00268           | <0.00268             | <0.00268                                      | <0.00268              | <0.00268                                  | <0.00536          | <0.00268        | <0.00268                          |
| SS-BLDG-3                                | 1              | 1/12/09      | <0.0301                  | <0.0602         | <0.00301        | <0.00301           | <0.00301             | <0.00301                                      | <0.00301              | <0.00301                                  | <0.00602          | <0.00301        | <0.00301                          |
| SS-BLDG-4                                | 1              | 1/12/09      | <0.0299                  | <0.0598         | <0.00299        | <0.00299           | <0.00299             | <0.00299                                      | <0.00299              | <0.00299                                  | <0.00598          | <0.00299        | <0.00299                          |
| <b>Solid Aquifer Matrix</b>              |                |              |                          |                 |                 |                    |                      |                                               |                       |                                           |                   |                 |                                   |
| GP001                                    | 6-8            | 8/9/05       |                          |                 |                 | <0.0054            |                      | <0.0054                                       | <0.0054               |                                           |                   | <0.0054         |                                   |
| GP002                                    | 4-6            | 8/9/05       |                          |                 |                 | <0.0049            |                      | <0.0049                                       | <0.0049               |                                           |                   | <0.0049         |                                   |
| GP003                                    | 2-4            | 8/9/05       |                          |                 |                 | <0.0048            |                      | <0.0048                                       | <0.0048               |                                           |                   | <0.0048         |                                   |
| GP004                                    | 4-6            | 8/9/05       |                          |                 |                 | <0.004             |                      | <0.004                                        | <0.004                |                                           |                   | <0.004          |                                   |
| GP005                                    | 4-6            | 8/9/05       |                          |                 |                 | <0.0045            |                      | <0.0045                                       | <0.0045               |                                           |                   | <0.0045         |                                   |
| GP006                                    | 2-4            | 8/9/05       |                          |                 |                 | <0.0046            |                      | <0.0046                                       | <0.0046               |                                           |                   | <0.0046         |                                   |
| GP013                                    | 4-6            | 8/10/05      |                          |                 |                 | <0.0052            |                      | <0.0052                                       | <0.0052               |                                           |                   | <0.0052         |                                   |
| MIP-5                                    | 3              | 10/16/08     | <0.022                   | <0.045          | <0.0022         | <0.0022            | <0.0022              | <0.0022                                       | <0.0022               | <0.0022                                   | <0.0045           | <0.0022         | <0.0022                           |
| MW-10                                    | 5-10           | 7/7/06       | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-11                                    | 5-10           | 7/6/06       | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-12                                    | 5-10           | 7/6/06       | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-13                                    | 13-15          | 6/27/06      | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-16                                    | 8-10           | 6/27/06      | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-8                                     | 8-10           | 6/27/06      | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |
| MW-9                                     | 8-10           | 6/27/06      | <0.1                     | <0.1            | <0.005          | <0.005             | NA                   | <0.005                                        | <0.005                | <0.005                                    | NA                | <0.005          | <0.005                            |

NA: Not analyzed

ND: Not detected

Matrix: Vadose Zone Soil - sample collected above or at the high water table mark  
Solid Aquifer Matrix - sample collected below the high water table mark

Capitol Adhesives  
Table 5. Groundwater Delineation

| Well             | Date Sampled | Tetra<br>chloro<br>ethene<br>(mg/L) | Trichloro<br>ethene<br>(mg/L) | cis-1,2-<br>Dichloro<br>ethene<br>(mg/L) | Vinyl<br>chloride<br>(mg/L) | Total<br>Chlorinated<br>Ethenes<br>(mg/L) | 1,1,1-<br>Trichloroe<br>thane<br>(mg/L) | 1,1-<br>Dichloro<br>ethane<br>(mg/L) | Chloro<br>ethane<br>(mg/L) | Total<br>Chlorinated<br>Ethaness<br>(mg/L) | 1,1,2-<br>Trichloro<br>ethane<br>(mg/L) | 1,1-<br>Dichloro<br>ethene<br>(mg/L) | 1,2-<br>Dichloro<br>ethane<br>(mg/L) | Acetone<br>(mg/L) | Benzene<br>(mg/L) | Chloroform<br>(mg/L) | Cyclo<br>hexane<br>(mg/L) | Dichloro<br>methane<br>(mg/L) | Freon-11<br>(mg/L) | Freon-113<br>(mg/L) | Methyl<br>cyclo<br>hexane<br>(mg/L) | o-Xylene<br>(mg/L) | Toluene<br>(mg/L) | trans-1,2-<br>Dichloroet<br>hene<br>(mg/L) |
|------------------|--------------|-------------------------------------|-------------------------------|------------------------------------------|-----------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|-------------------|-------------------|----------------------|---------------------------|-------------------------------|--------------------|---------------------|-------------------------------------|--------------------|-------------------|--------------------------------------------|
| Type 1 RRS or DL |              | 0.005                               | 0.005                         | 0.07                                     | 0.002                       |                                           | 0.2                                     | 4                                    | DL                         |                                            | 0.005                                   | 0.007                                | 0.005                                | 4                 | 0.005             | 0.08                 | DL                        | 0.005                         | 2                  | 1000                | DL                                  | 10                 | 1                 | 0.1                                        |
| MW-1R            | 8/23/2012    | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | <0.005                                     | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-1R            | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 2/8/2012     | <0.005                              | <0.005                        | 0.0061                                   | 0.0025                      | 0.0086                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.38              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.2               | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 2/8/2012     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.071             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.31              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-3             | 2/9/12       | 3 E                                 | 4.2 E                         | 1.9 E                                    | 0.24 E                      | 9.34                                      | 0.59 E                                  | 0.49 E                               | <0.01                      | 1.08                                       | 0.024                                   | 2.6 E                                | 1 E                                  | <0.05             | 0.0076            | 1.1 E                | 0.024                     | 0.066                         | 0.0096             | 0.24 E              | 0.012                               | <0.005             | 0.0052            | 0.17                                       |
| MW-3             | 8/24/2012    | 3.4                                 | 6.1                           | 2.9                                      | 0.23                        | 12.63                                     | 0.52                                    | 0.54                                 | <0.01                      | 1.06                                       | 0.047                                   | 3                                    | 1.3                                  | <0.05             | 0.013             | 1.8                  | <0.005                    | 0.045                         | <0.005             | <0.01               | 0.0068                              | 0.0052             | 0.0072            | 0.18                                       |
| MW-3             | 2/6/13       | 3.5                                 | 5                             | 2.6                                      | 0.3                         | 11.4                                      | 0.56                                    | 0.6                                  | <0.01                      | 1.16                                       | <0.005                                  | 2.9                                  | 1.3                                  | 3.7               | 0.0098            | 1.80                 | 0.023                     | 0.011                         | 0.0078             | 0.3                 | 0.016                               | <0.005             | <0.005            | 0.24                                       |
| MW-3             | 8/6/2013     | 2.9                                 | 4.8                           | 2.3                                      | 0.23                        | 10.23                                     | 0.47                                    | 0.32                                 | <0.01                      | 11.02                                      | 0.025                                   | 1.6                                  | 0.66                                 | 0.39              | 0.007             | 0.70                 | <0.005                    | 0.0063                        | <0.005             | 0.18                | 0.022                               | 0.007              | 0.12              | <0.005                                     |
| MW-3 (Dup)       | 8/6/2013     | 2.9                                 | 4.9                           | 2.3                                      | 0.23                        | 10.33                                     | 0.45                                    | 0.32                                 | <0.01                      | 11.1                                       | 0.021                                   | 1.6                                  | 0.67                                 | 0.29              | 0.0066            | 0.72                 | <0.005                    | 0.0056                        | <0.005             | 0.15                | 0.017                               | 0.0065             | 0.11              | <0.005                                     |
| MW-3D            | 2/8/12       | 0.93                                | 1                             | 0.41                                     | 0.12                        | 2.46                                      | 0.46                                    | 0.19                                 | <0.01                      | 0.65                                       | <0.005                                  | 0.55                                 | 0.16                                 | <0.05             | <0.005            | 0.15                 | <0.005                    | <0.005                        | <0.005             | 0.082               | 0.005                               | <0.005             | <0.005            | 0.034                                      |
| MW-3D (Dup)      | 2/8/12       | 0.99                                | 1.1                           | 0.46                                     | 0.12                        | 2.67                                      | 0.48                                    | 0.19                                 | <0.01                      | 0.67                                       | 0.0056                                  | 0.6                                  | 0.16                                 | <0.05             | <0.005            | 0.18                 | <0.005                    | <0.005                        | <0.005             | 0.08                | 0.0055                              | <0.005             | <0.005            | 0.034                                      |
| MW-3D            | 8/24/12      | 0.88                                | 1.1                           | 0.51                                     | 0.1                         | 2.59                                      | 0.3                                     | 0.18                                 | <0.01                      | 0.48                                       | 0.0079                                  | 0.46                                 | 0.24                                 | <0.05             | <0.005            | 0.23                 | <0.005                    | 0.014                         | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.033                                      |
| MW-3D (Dup)      | 8/24/2012    | 0.9                                 | 1.1                           | 0.45                                     | 0.11                        | 2.56                                      | 0.25                                    | 0.18                                 | <0.01                      | 0.43                                       | 0.0075                                  | 0.49                                 | 0.19                                 | <0.05             | <0.005            | 0.23                 | <0.005                    | 0.014                         | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.032                                      |
| MW-3D            | 2/6/2013     | 2.00                                | 1.7                           | 0.97                                     | 0.15                        | 4.82                                      | 0.45                                    | 0.14                                 | <0.01                      | 0.59                                       | <0.005                                  | 0.57                                 | 0.19                                 | 0.62              | <0.005            | 0.15                 | 0.0061                    | 0.017                         | <0.005             | 0.04                | 0.013                               | <0.005             | <0.005            | 0.028                                      |
| MW-3D            | 8/6/2013     | 2.9                                 | 4.8                           | 2.9                                      | 0.28                        | 10.88                                     | 0.53                                    | 0.28                                 | 0.011                      | 11.701                                     | 0.017                                   | 0.87                                 | 0.41                                 | 0.1               | <0.005            | 0.36                 | <0.005                    | 0.027                         | <0.005             | 0.13                | 0.051                               | 0.02               | 0.063             | 0.0073                                     |
| MW-3B            | 8/24/2012    | 0.52                                | 0.37                          | 0.15                                     | 0.061                       | 1.10                                      | 0.04                                    | 0.075                                | <0.01                      | 0.115                                      | <0.005                                  | 0.17                                 | 0.04                                 | <0.05             | <0.005            | 0.02                 | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.0089                                     |
| MW-3B            | 2/6/2013     | 0.82                                | 0.36                          | 0.17                                     | 0.071                       | 1.42                                      | 0.052                                   | 0.064                                | <0.01                      | 0.116                                      | <0.005                                  | 0.2                                  | 0.032                                | <0.05             | <0.005            | 0.031                | <0.005                    | <0.005                        | <0.005             | 0.03                | <0.005                              | <0.005             | <0.005            | 0.0086                                     |
| MW-4             | 2/8/12       | 0.017                               | 0.041                         | 0.033                                    | 0.011                       | 0.102                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 8/23/12      | <0.005                              | 0.013                         | 0.012                                    | 0.0058                      | 0.0308                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 2/5/13       | <0.005                              | 0.0066                        | <0.005                                   | <0.002                      | 0.0066                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 8/5/13       | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-5             | 2/9/12       | <0.005                              | <0.005                        | <0.005                                   | 0.011                       | 0.011                                     | <0.005                                  | 0.023                                | 0.2                        | 0.223                                      | <0.005                                  | <0.005                               | 0.017                                | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0095                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.024                                      |
| MW-5             | 8/23/2012    | <0.005                              | <0.005                        | <0.005                                   | 0.0044                      | 0.0044                                    | <0.005                                  | 0.025                                | 0.17                       | 0.195                                      | <0.005                                  | <0.005                               | 0.0085                               | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0061                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.014                                      |
| MW-5             | 2/6/2013     | <0.005                              | <0.005                        | <0.005                                   | 0.0064                      | 0.0064                                    | <0.005                                  | 0.029                                | 0.18                       | 0.209                                      | <0.005                                  | <0.005                               | 0.013                                | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0082                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.024                                      |
| MW-5             | 8/6/2013     | <0.005                              | 0.0052                        | 0.11                                     | 0.14                        | 0.2552                                    | 0.0068                                  | 0.081                                | 0.062                      | 0.405                                      | <0.005                                  | 0.013                                | 0.047                                | <0.05             | <0.005            | 0.006                | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | 0.018             | <0.005                                     |
| MW-6             | 2/8/2012     | <0.005                              | 0.041                         | 0.006                                    | 0.0028                      | 0.0498                                    | 0.026                                   | 0.019                                | <0.01                      | 0.045                                      | <0.005                                  | 0.11                                 | 0.013                                | <0.05             | <0.005            | 0.024                | <0.005                    | <0.005                        | <0.005             | 0.02                | <0.005                              | <0.005             | <0.005            | 0.0067                                     |
| MW-6             | 2/6/2013     | <0.005                              | 0.048                         | <0.005                                   | <0.002                      | 0.048                                     | 0.022                                   | 0.014                                | <0.01                      | 0.036                                      | <0.005                                  | 0.1                                  | 0.012                                | <0.05             | <0.005            | 0.021                | <0.005                    | <0.005                        | <0.005             | 0.02                | <0.005                              | <0.005             | <0.005            | 0.0056                                     |
| MW-7             | 2/9/2012     | 1.7                                 | 0.23                          | 0.32                                     | 0.15                        | 2.4                                       | <0.005                                  | 0.016                                | <0.01                      | 0.016                                      | <0.005                                  | 0.034                                | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-7             | 2/6/2013     | 2                                   | 0.27                          | 0.22                                     | 0.15                        | 2.64                                      | <0.005                                  | 0.017                                | <0.01                      | 0.017                                      | <0.005                                  | 0.031                                | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-8             | 2/8/2012     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-8             | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-9             | 2/8/2012     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-9             | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-10            | 2/7/2012     | <0.005                              | 0.049                         | 0.016                                    | <0.002                      | 0.065                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-10            | 2/6/2013     | <0.005                              | 0.051                         | 0.012                                    | <0.002                      | 0.063                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-11            | 2/7/2012     | <0.005                              | <0.005                        | 0.0088                                   | <0.002                      | 0.009                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-11            | 2/5/2013     | <0.005                              | <0.005                        | 0.0052                                   | <0.002                      | 0.0052                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-11 Dup)       | 2/5/2013     | <0.005                              | <0.005                        | 0.0089                                   | <0.002                      | 0.0089                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-12            | 2/7/2012     | <0.005                              | 0.0091                        | 0.014                                    | <0.002                      | 0.0231                                    | <0.005                                  | 0.0071                               | <0.01                      | 0.0071                                     | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-12            | 2/5/2013     | <0.005                              | 0.011                         | 0.011                                    | <0.002                      | 0.022                                     | <0.005                                  | 0.0054                               | <0.01                      | 0.0054                                     | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-13 (Dup)      | 2/8/12       | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        |                                         |                                      |                            |                                            |                                         |                                      |                                      |                   |                   |                      |                           |                               |                    |                     |                                     |                    |                   |                                            |

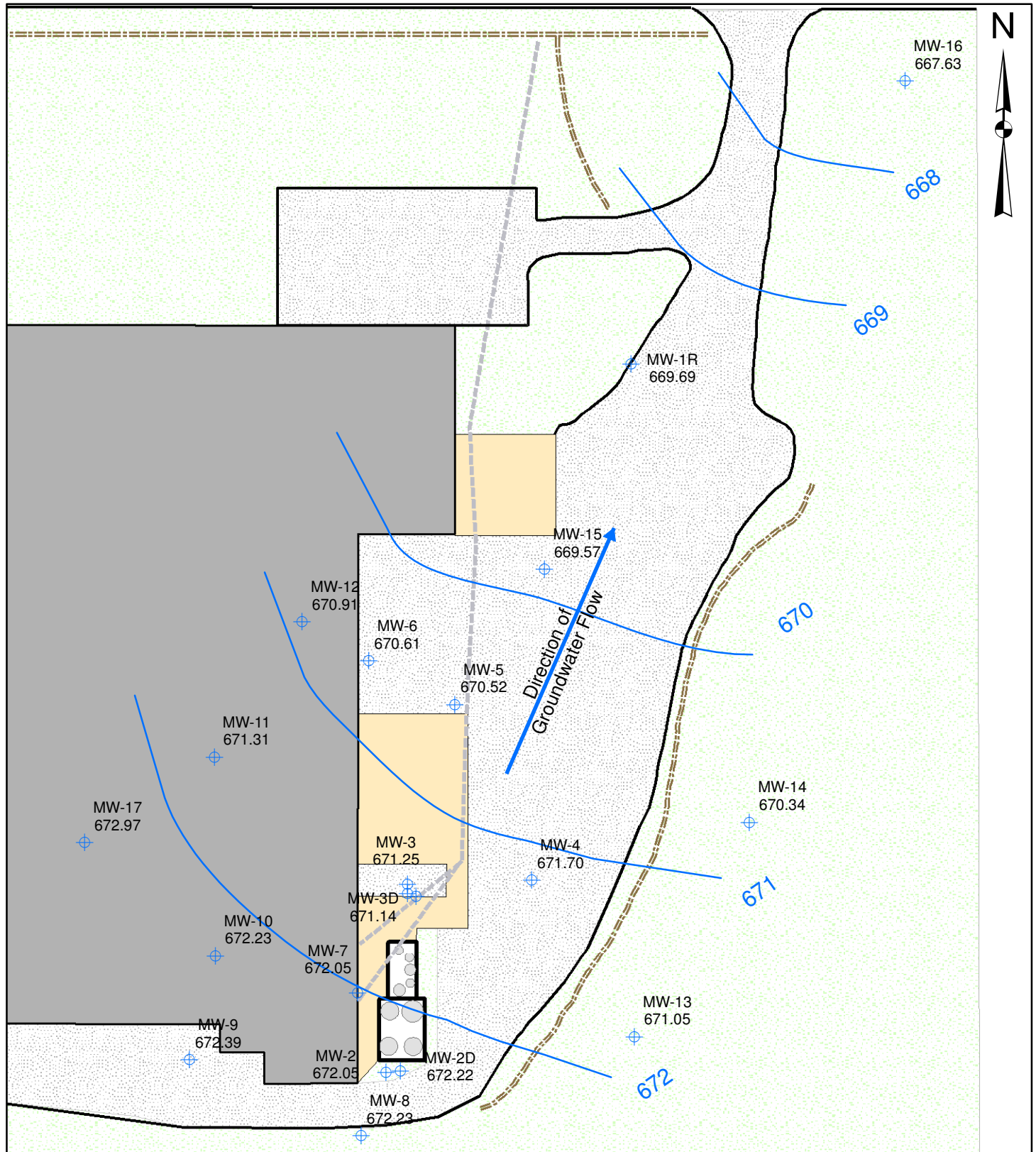
## FIGURES

**Figure 1**  
**Projected Milestone Schedule**

| ID | Task Name                                                                                  | 2011  | 2012   |       |             |       | 2013   |                         |             |              | 2014 |                        |                 |       | 2015 |       |    |       | 2016 |       |    |           |
|----|--------------------------------------------------------------------------------------------|-------|--------|-------|-------------|-------|--------|-------------------------|-------------|--------------|------|------------------------|-----------------|-------|------|-------|----|-------|------|-------|----|-----------|
|    |                                                                                            | Q4    | Q1     | Q2    | Q3          | Q4    | Q1     | Q2                      | Q3          | Q4           | Q1   | Q2                     | Q3              | Q4    | Q1   | Q2    | Q3 | Q4    | Q1   | Q2    | Q3 | Q4        |
| 1  | Project Mangement                                                                          |       |        |       |             |       |        |                         |             |              |      |                        |                 |       |      |       |    |       |      |       |    |           |
|    | Financial Assurance with cost estimate                                                     | Nov 1 |        |       |             |       |        |                         |             |              |      |                        |                 |       |      |       |    |       |      |       |    |           |
|    | Semiannual Progress Reports                                                                |       |        | Apr 3 |             | Oct 3 |        | Apr 3                   |             | Oct 3        |      | Apr 3                  |                 | Oct 3 |      | Apr 3 |    | Oct 3 |      | Apr 3 |    | CSR Oct 3 |
|    | Horizontal and vertical delineation, final remediation plan, cost estimate for remediation |       |        |       |             |       |        |                         |             | Oct 3 Delin. |      | Apr 3                  |                 |       |      |       |    |       |      |       |    |           |
| 2  | Well Installation                                                                          |       |        |       |             |       |        |                         |             |              |      |                        |                 |       |      |       |    |       |      |       |    |           |
| 3  | Groundwater Sampling                                                                       |       | Annual |       | Semi-Annual |       | Annual |                         | Semi-Annual |              |      |                        |                 |       |      |       |    |       |      |       |    |           |
| 4  | Source Area Evaluation and Remedial Action                                                 |       |        |       |             |       |        | Prelim Remediation Plan |             |              |      | Final Remediation Plan | Remedial Action |       |      |       |    |       |      |       |    |           |
|    | Pilot Scale ISCO Treatment                                                                 |       |        |       |             |       |        |                         |             |              |      |                        |                 |       |      |       |    |       |      |       |    |           |
| 5  | Human Health Risk Evaluation                                                               |       |        |       |             |       |        |                         |             |              |      | Prelim Risk Evaluation |                 |       |      |       |    |       |      |       |    | CSR       |

Complete  
 EPD Deadline  
 Internal Deadline

# Capitol Adhesives Potentiometric Surface Map of Surficial Aquifer (August 2013)

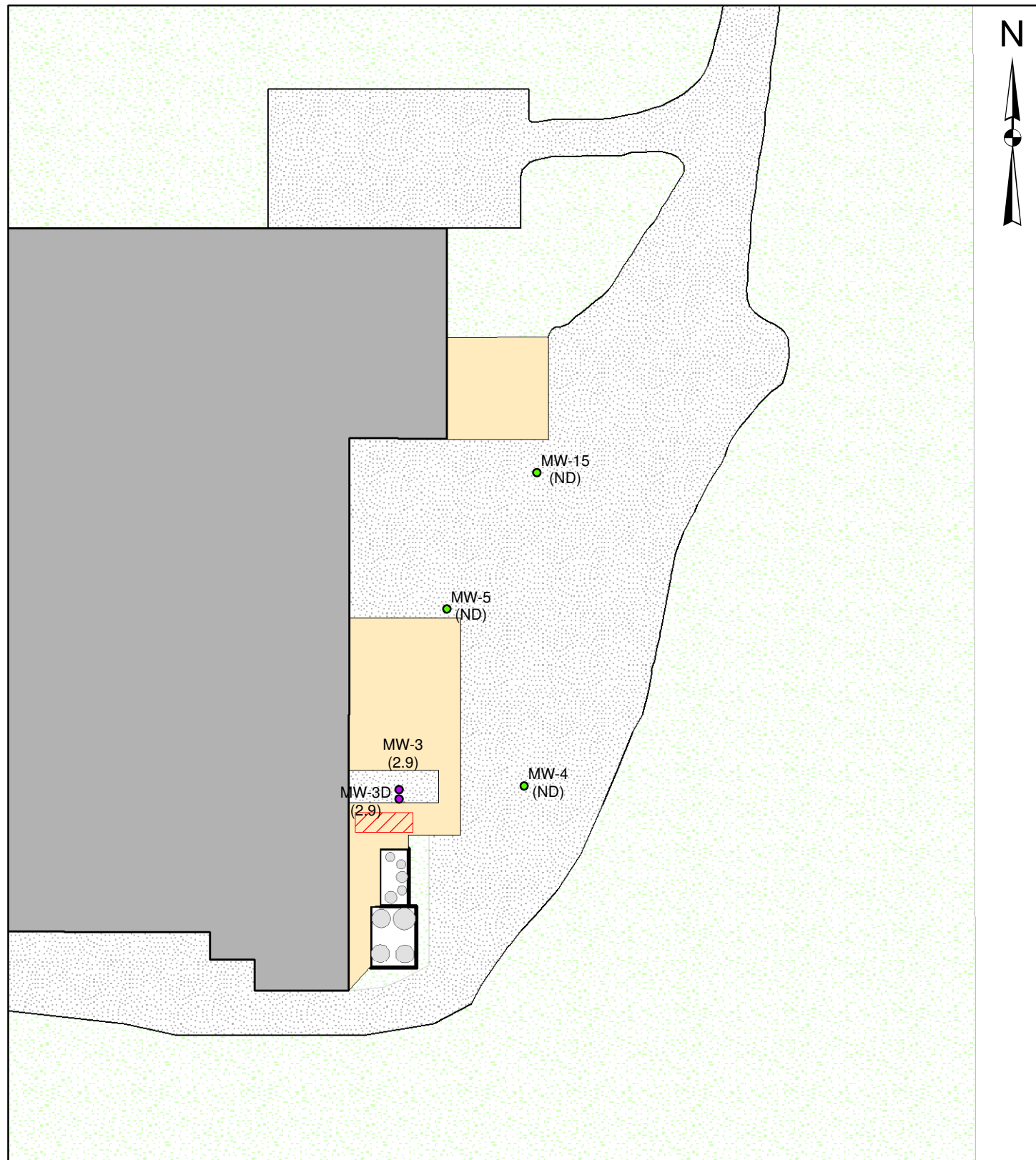


0 50 100  
Feet

— Potentiometric Surface Elevation (ft msl)  
- - - Surface Drainage Ditch

■ Building  
■ Concrete Pad  
■ AST Containment Area  
■ Packed Gravel Drive/Parking  
■ Grass

# Capitol Adhesives Groundwater PCE (August 2013)



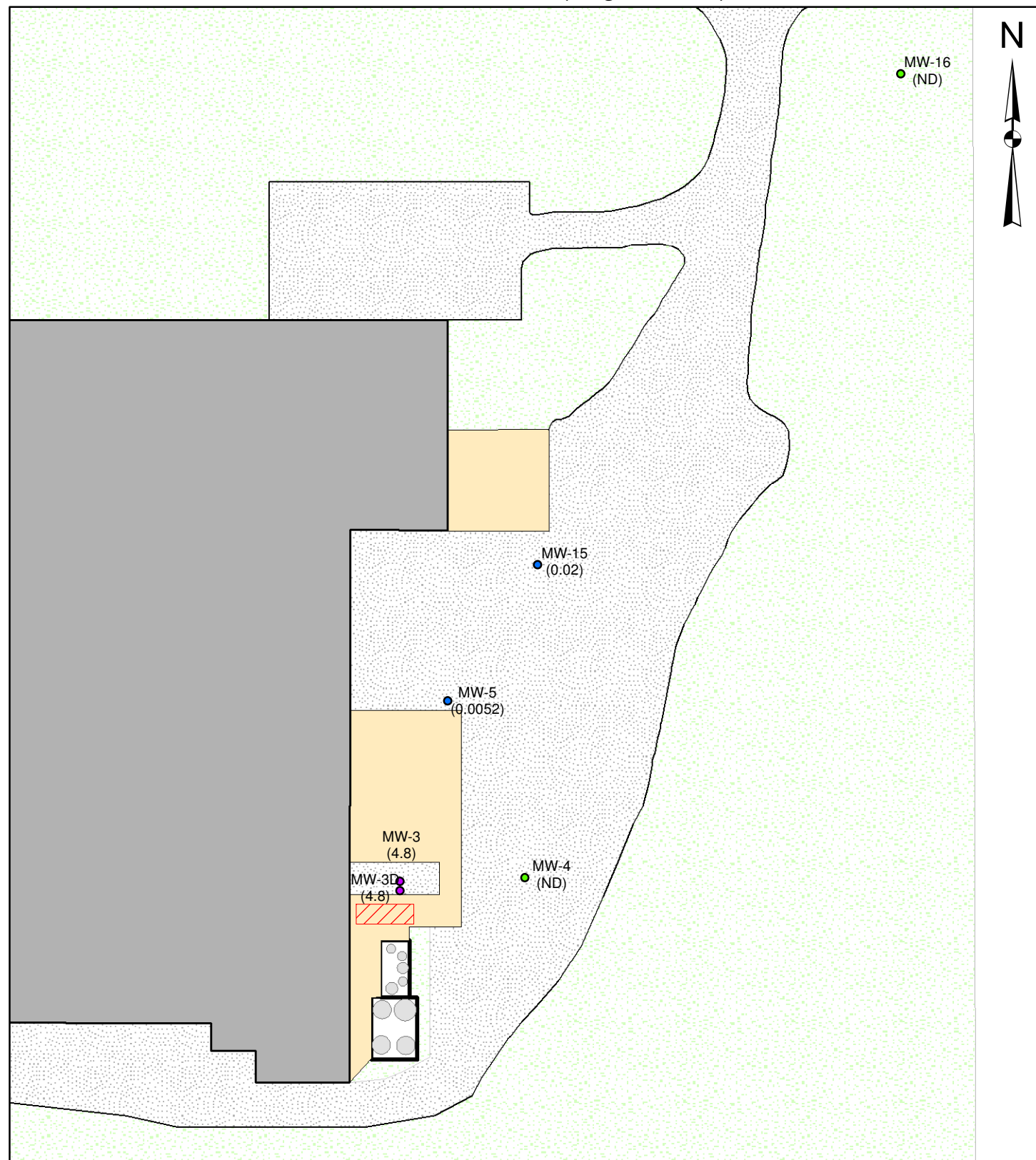
0 50 100  
Feet

## PCE (mg/L)

- Non-detect
- < 0.005 (Type 1 RRS)
- 0.005 - 2
- > 2

- Location of 1995 Spill (approx)
- Building
- Concrete Pad
- AST Containment Area
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Groundwater TCE (August 2013)



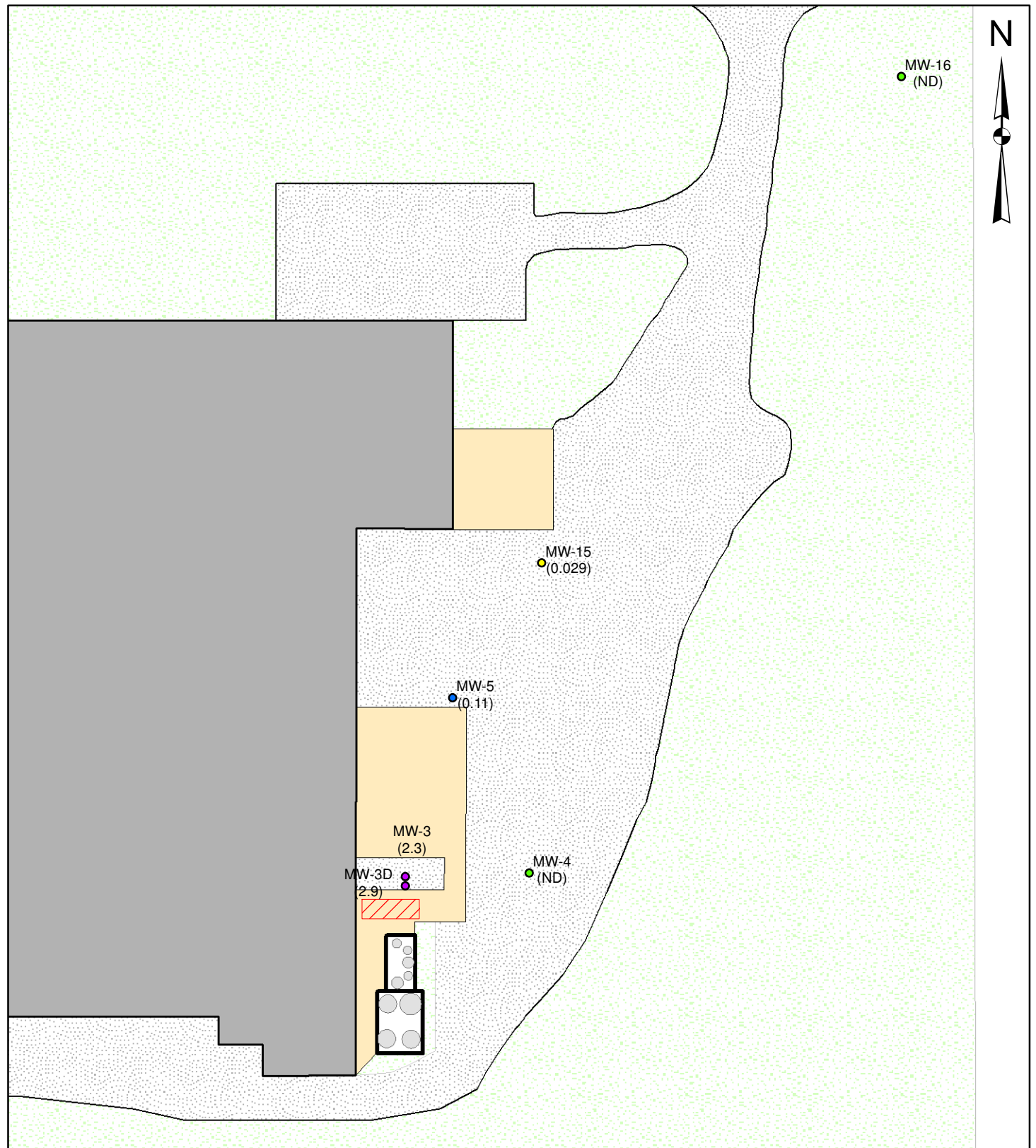
0 50 100  
Feet

## TCE (mg/L)

- Non-detect
- < 0.005 (Type 1 RRS)
- 0.0505 - 2
- > 2

- Location of 1995 Spill (approx)
- Building
- Concrete Pad
- AST Containment Area
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Groundwater DCE (August 2013)



0 50 100  
Feet

## DCE (mg/L)

- Non-detect
- < 0.07 (Type 1 RRS)
- 0.07 - 2
- > 2

Location of 1995 Spill (approx)

AST Containment Area

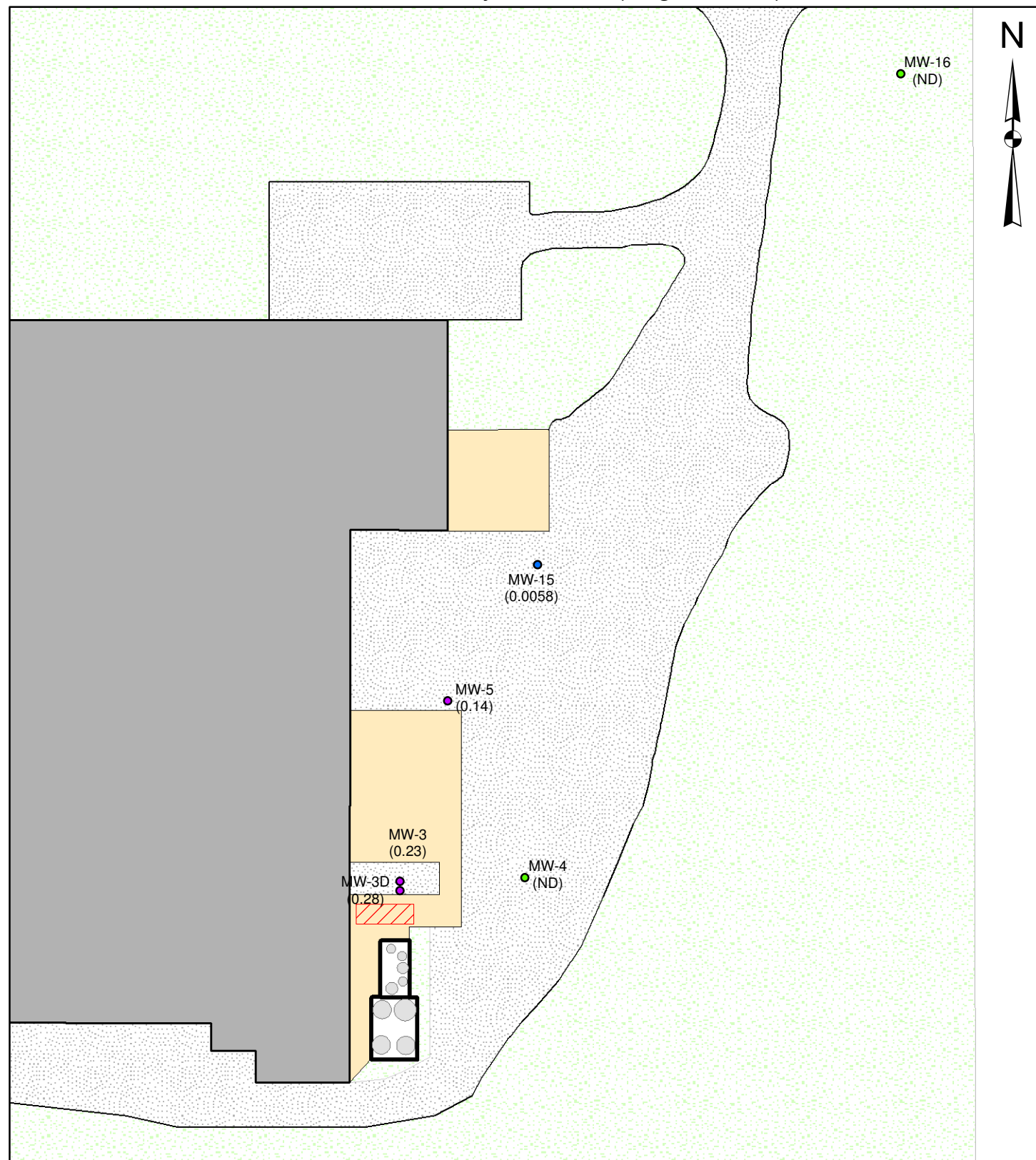
Building

Concrete Pad

Packed Gravel Drive/Parking

Grass

# Capitol Adhesives Groundwater Vinyl Chloride (August 2013)



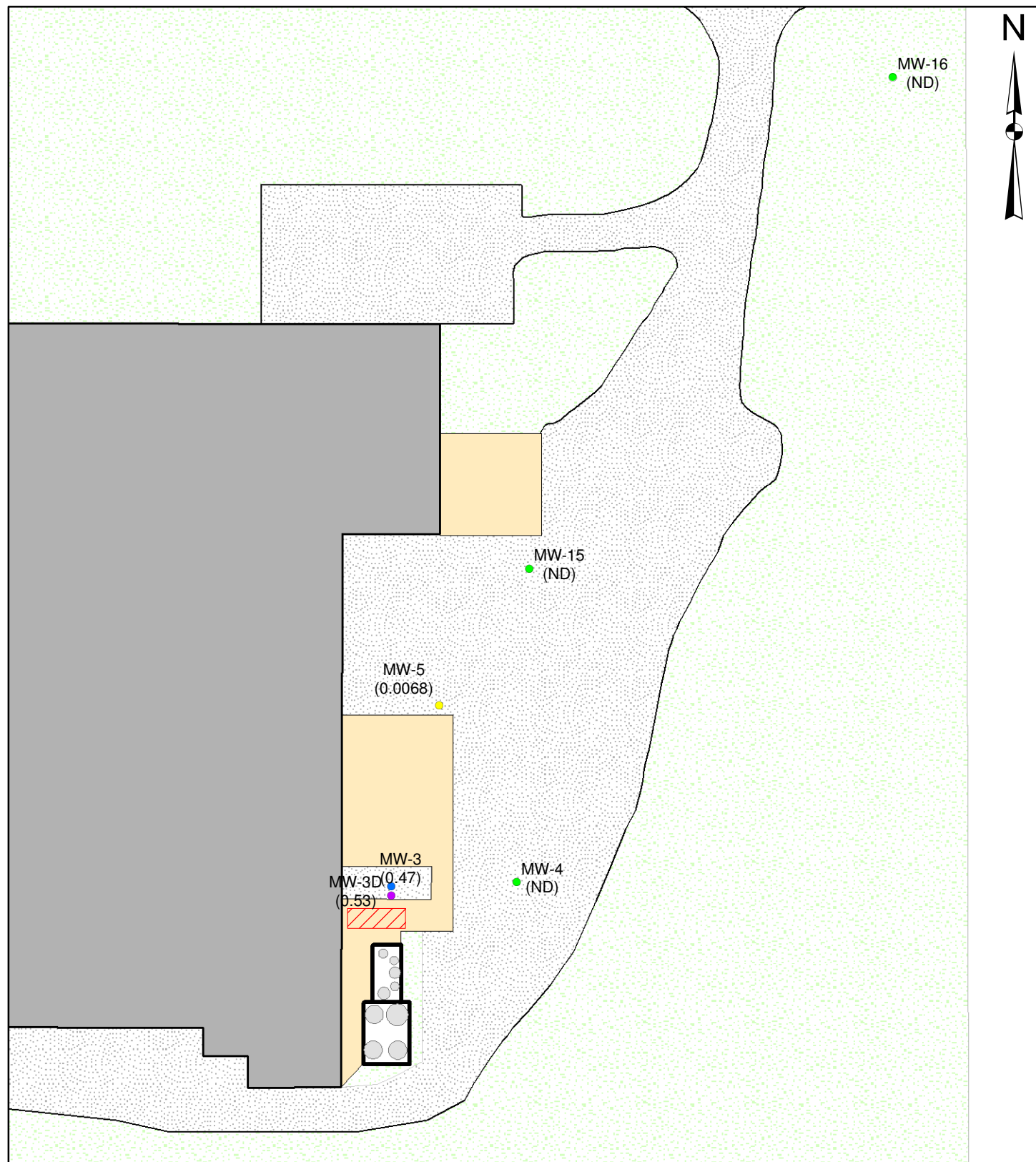
0 50 100  
Feet

## VC (mg/L)

- Non-detect
- < 0.002 (Type 1 RRS)
- 0.002 - 0.1
- > 0.1

- Location of 1995 Spill (approx)
- AST Containment Area
- Building
- Concrete Pad
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Groundwater 1,1,1-TCA (August 2013)



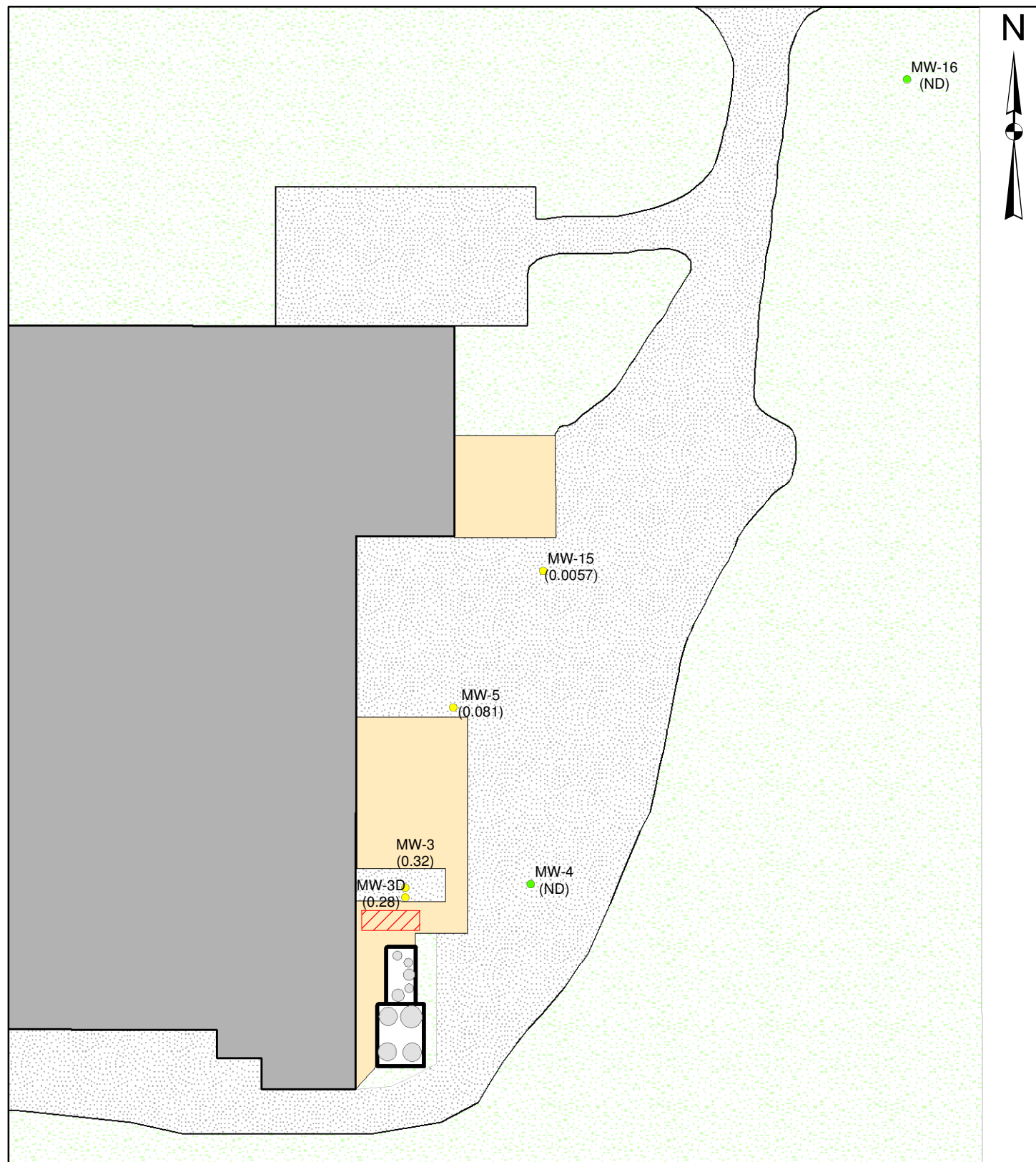
0 50 100  
Feet

## 1,1,1-TCA (mg/L)

- Non-detect
- < 0.2 (Type 1 RRS)
- 0.2 - 0.5
- > 0.5

- Location of 1995 Spill (approx)
- AST Containment Area
- Building
- Concrete Pad
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Groundwater DCA (August 2013)



0 50 100  
Feet

## DCA (mg/L)

- Non-detect
- <4 (Type 1 RRS)
- > 4

Location of 1995 Spill (approx)

AST Containment Area

Building

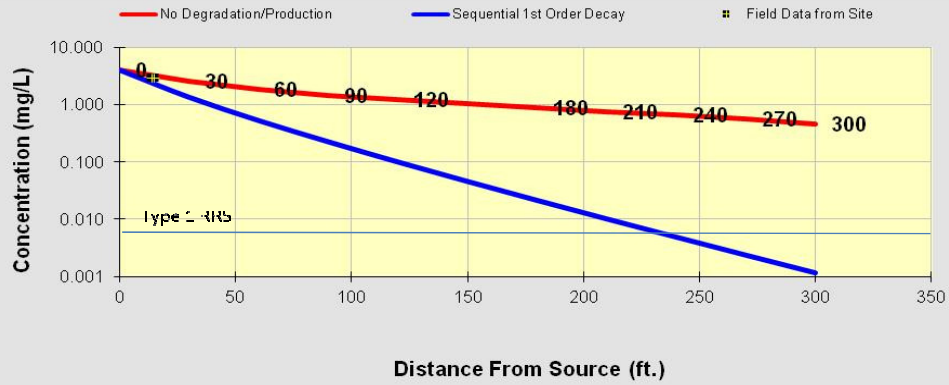
Concrete Pad

Packed Gravel Drive/Parking

Grass

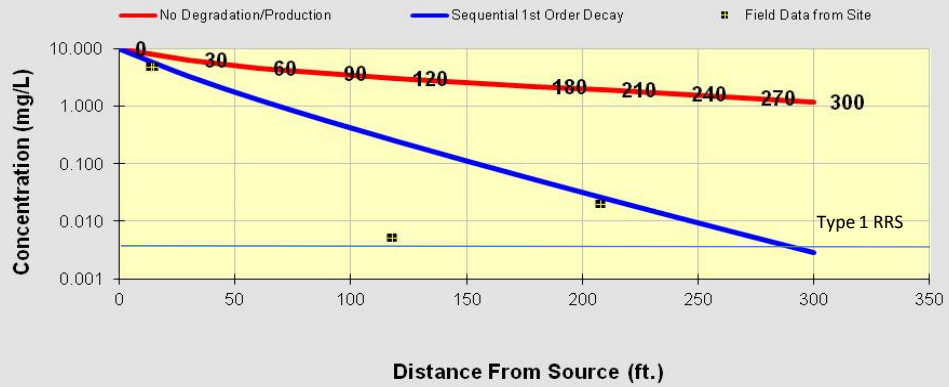
**Figure 5. Chlorinated Ethene Modeling Results (August 2013)**  
**Modeled Dissolved Chlorinated Ethene Concentrations Along Plume Centerline**

**Tetrachloroethene**



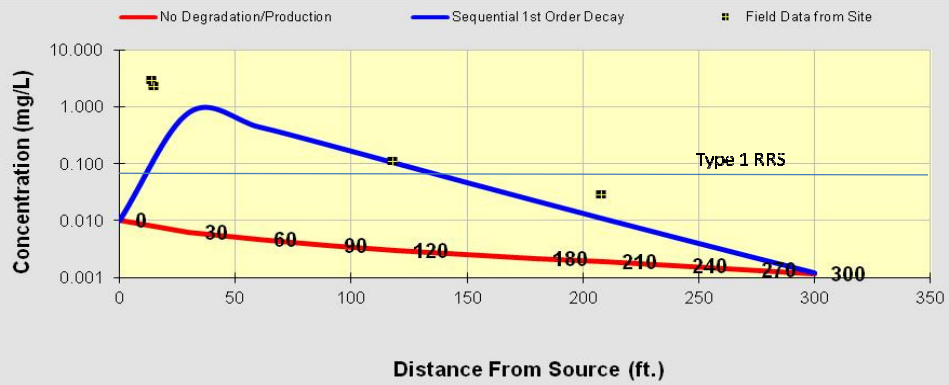
**PCE**

**Trichloroethene**



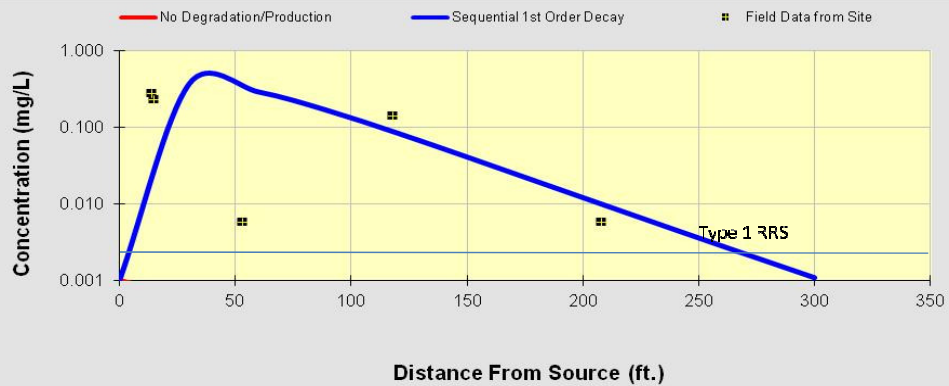
**TCE**

**cis-1,2-Dichloroethene**



**DCE**

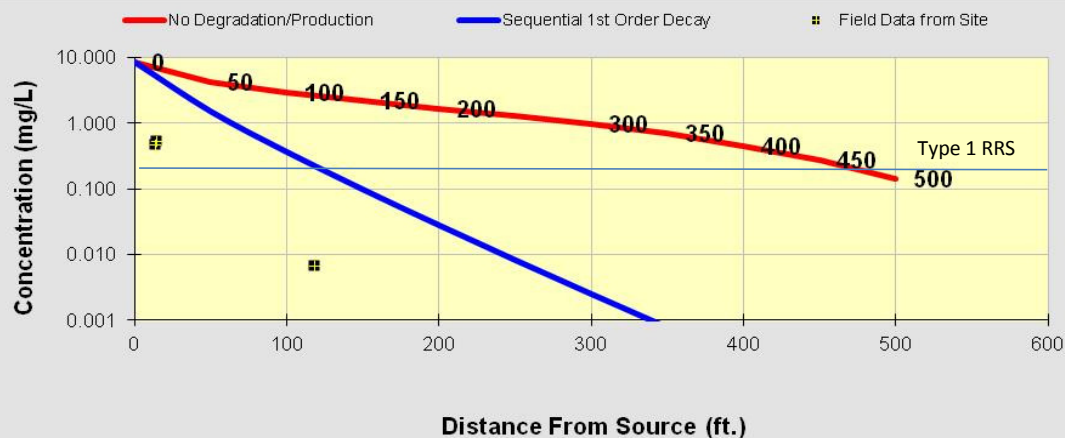
**Vinyl chloride**



**VC**

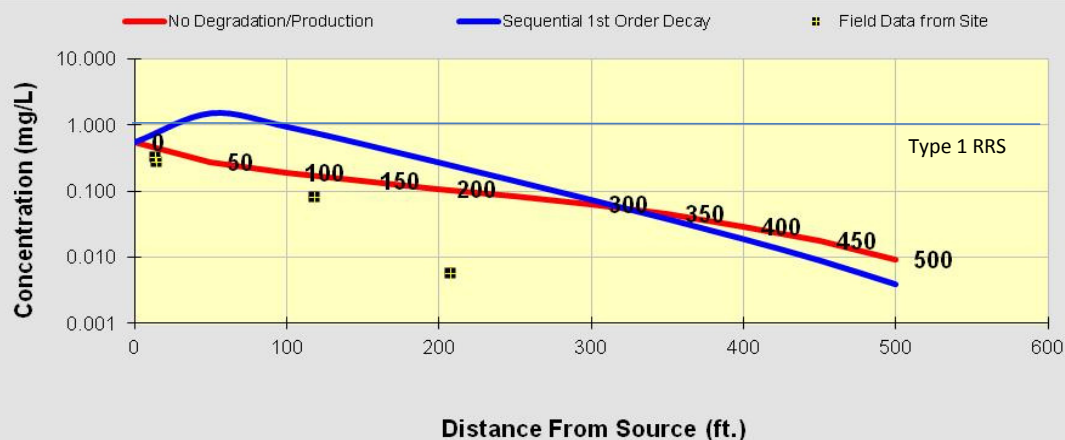
**Figure 6. Chlorinated Ethane Modeling Results (August 2013)**  
**Modeled Dissolved Chlorinated Ethane Concentrations Along Plume Centerline**

**1,1,1-Trichloroethane**



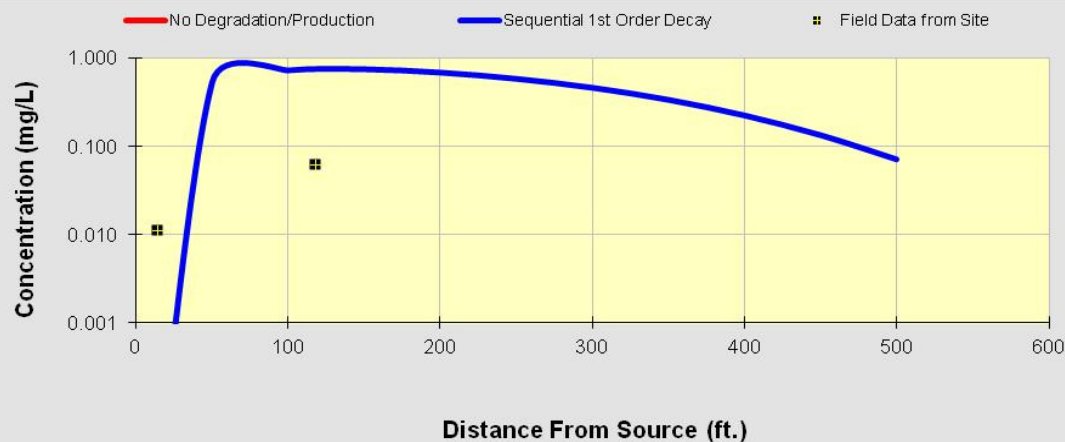
**TCA**

**1,1-Dichloroethane**



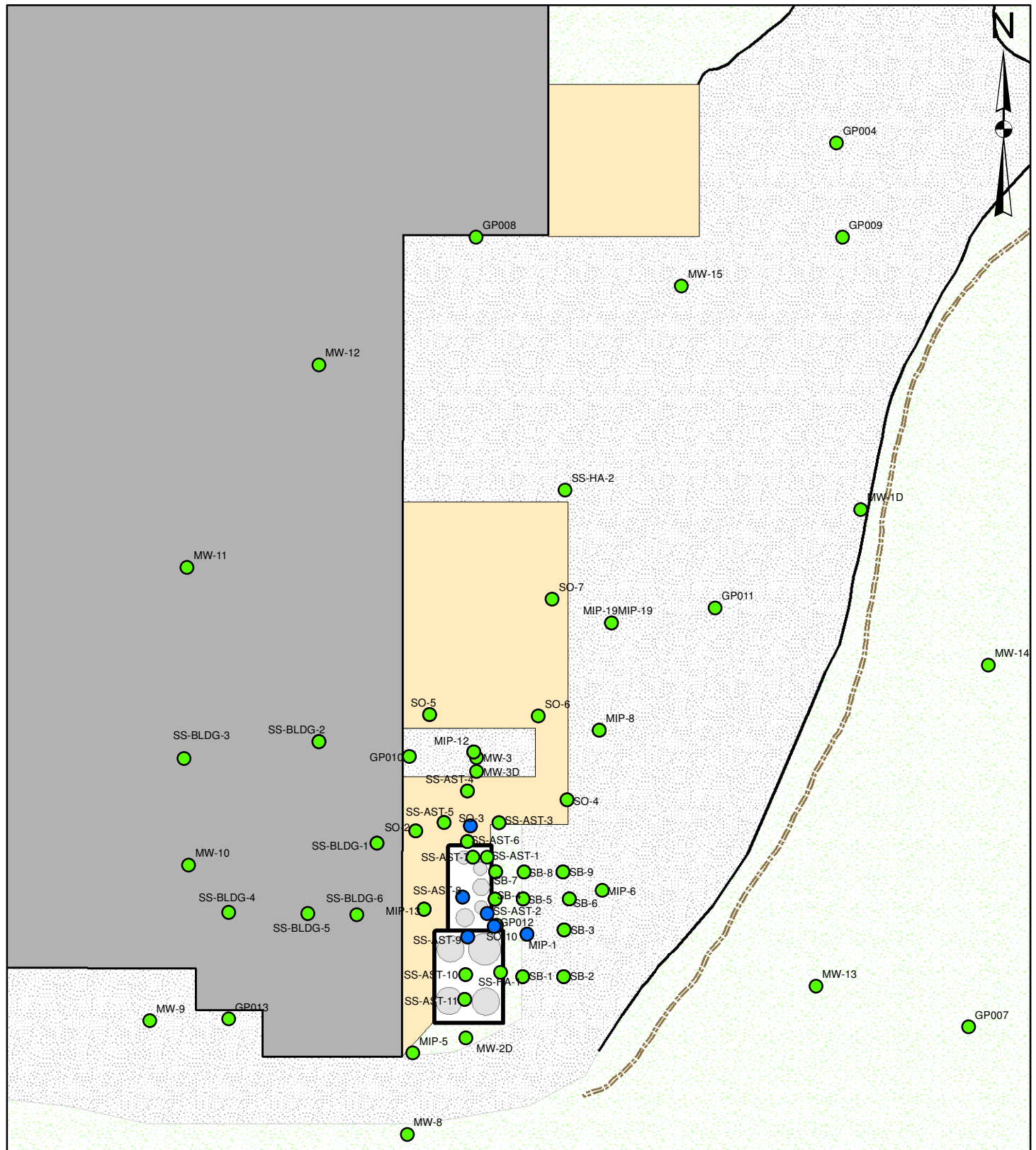
**DCA**

**Chloroethane**



**CA**

# Capitol Adhesives Solid Aquifer Matrix PCE Results Compared to Remedial Extent Level



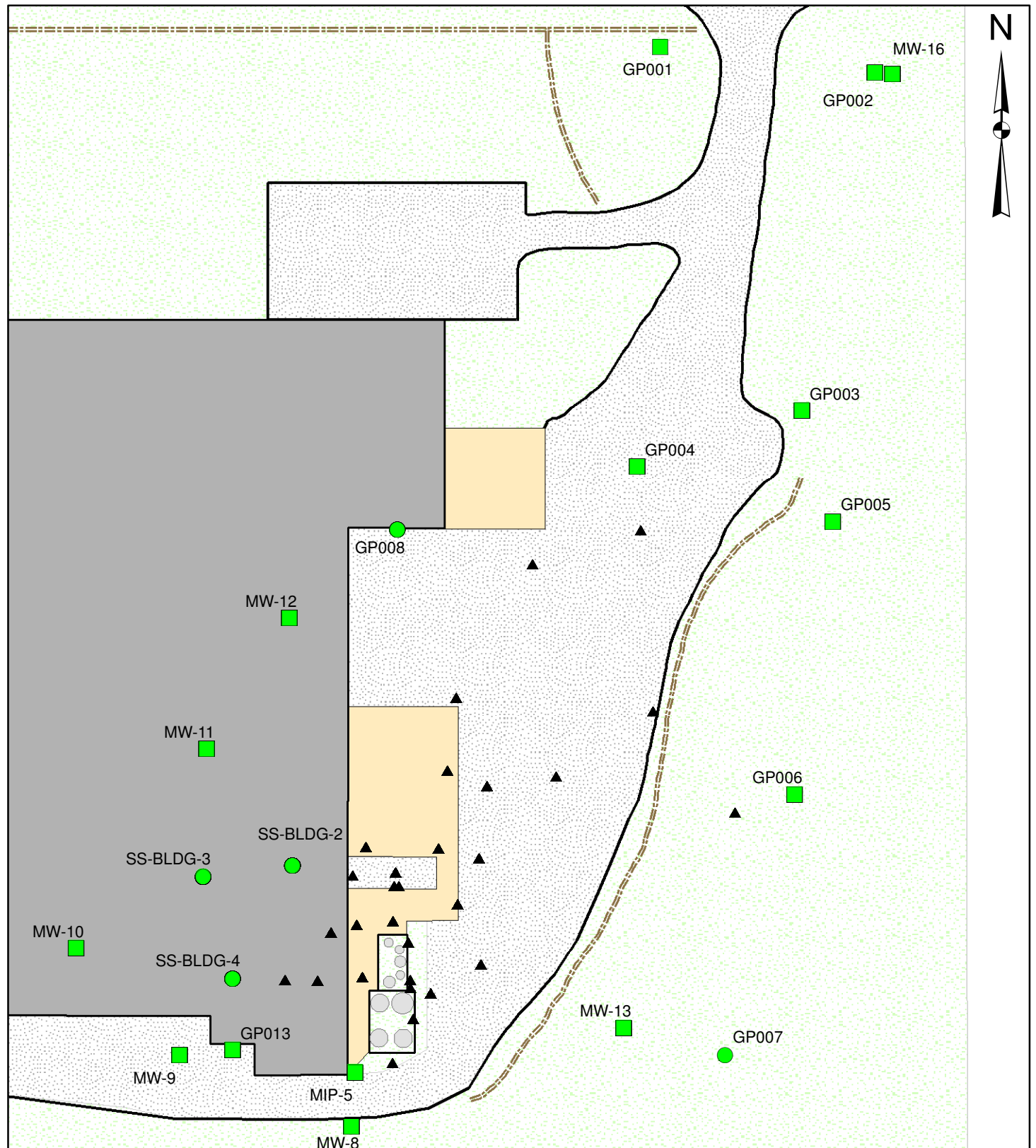
0 25 50  
Feet

## PCE (mg/kg)

- < SSLmod (7.5 mg/kg)
- > SSLmod (7.5 mg/kg)

- AST Containment Area
- Building
- Concrete Pad
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Vadose Zone Soil Delineation



0 50 100  
Feet

## Vadose Zone Soil Delineation Locations

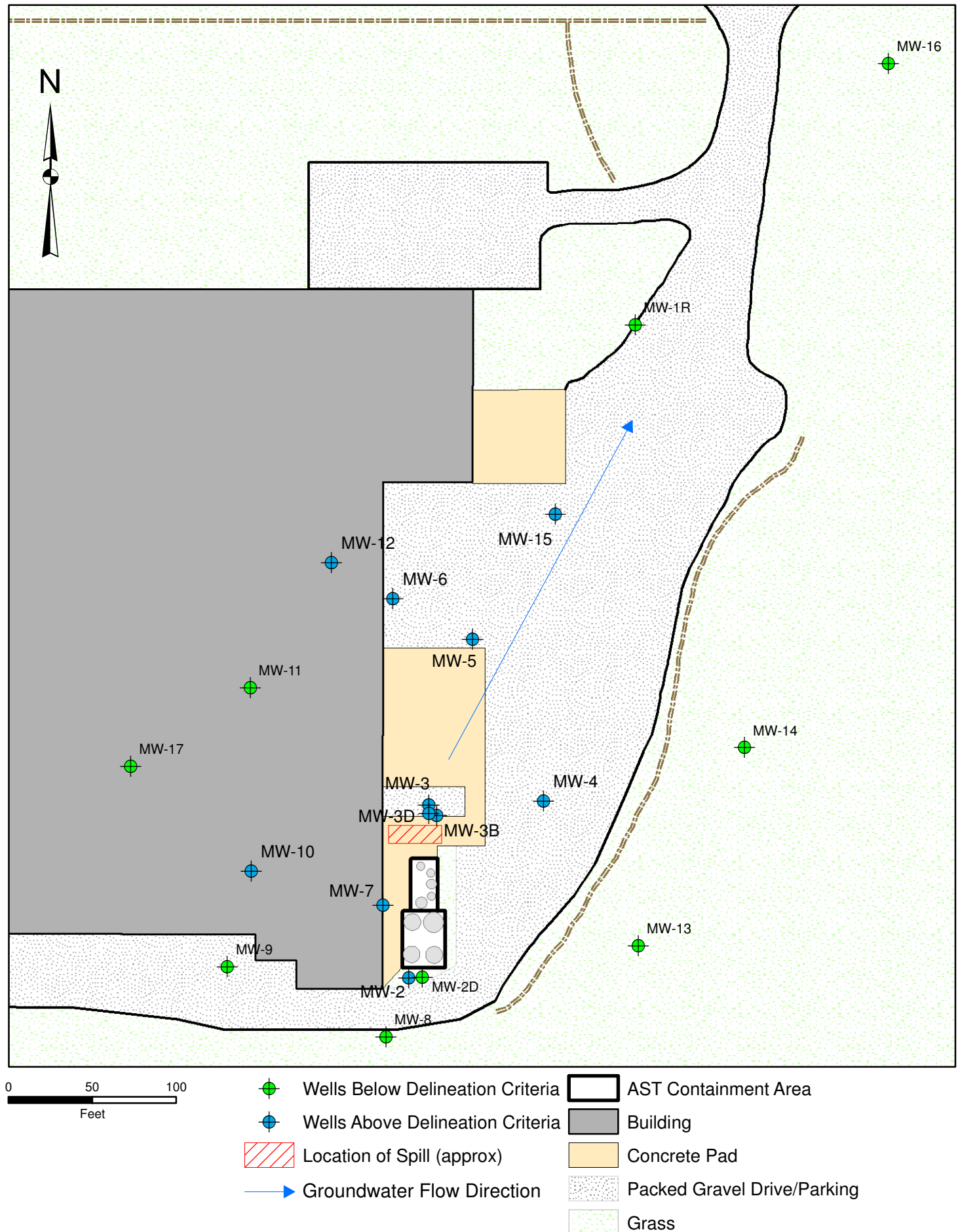
- Below Delineation Criteria
- Above Delineation Criteria

## Solid Aquifer Matrix Locations used for Delineation

- Below Delineation Criteria
- Above Delineation Criteria
- ▲ Other Soil or Solid Aquifer Matrix Locations

- AST Containment Area
- Building
- Concrete Pad
- Packed Gravel Drive/Parking
- Grass

# Capitol Adhesives Groundwater Delineation



**APPENDIX A**

**PROFESSIONAL GEOLOGIST**  
**SUMMARY OF HOURS**

4:19 PM  
09/30/13

## Environmental Planning Specialists, Inc.

April through September 2013

|                                                                                              | <u>Apr 13</u> | <u>May 13</u> | <u>Jun 13</u> | <u>Jul 13</u> | <u>Aug 13</u> | <u>Sep 13</u> | <u>TOTAL</u> |
|----------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| River Associates:Dalton Adhesives:Progress Reports<br>SP-Senior Principal:SP-Document Review | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 2.00          | 2.00         |
| Total River Associates:Dalton Adhesives:Progress Reports                                     | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 2.00          | 2.00         |
| River Associates:Dalton Adhesives:Project Management<br>SP-Senior Principal:SP-Meeting       | 0.00          | 3.50          | 0.00          | 0.00          | 0.00          | 0.00          | 3.50         |
| SP-Senior Principal:SP-Project Support                                                       | 0.00          | 4.50          | 2.00          | 1.00          | 2.00          | 0.00          | 9.50         |
| Total River Associates:Dalton Adhesives:Project Management                                   | 0.00          | 8.00          | 2.00          | 1.00          | 2.00          | 0.00          | 13.00        |
| <b>TOTAL</b>                                                                                 | <b>0.00</b>   | <b>8.00</b>   | <b>2.00</b>   | <b>1.00</b>   | <b>2.00</b>   | <b>2.00</b>   | <b>15.00</b> |

# **APPENDIX B**

## **CONCEPTUAL SITE MODEL**

# APPENDIX B

## CONCEPTUAL SITE MODEL

### B. CONCEPTUAL SITE MODEL

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## B. CONCEPTUAL SITE MODEL

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The Conceptual Site Model (CSM) is intended to establish a common knowledge base about the Site and its environmental condition, to facilitate the development of basic remedial action objectives appropriate for the Site, and to allow an informed decision regarding possible remedial action measures for the Site. This section describes the surface and subsurface features at the Site, discusses the fate and transport of chlorinated solvents, and discusses the potential receptors and exposure pathways associated with the Site.

### B.1. Elements of the Conceptual Site Model

The figures attached to this section and the Progress Report are plan view and profile diagrams depicting the extent of chlorinated solvents in the subsurface. Viewed in total, these figures give a three-dimensional representation of the site conditions.

### B.2. Ground Surface Features

The Site consists of one steel frame building (approximately 100,000 sf) with concrete masonry walls and slab on grade concrete floor with a metal roof. Parking lots are located to the north and east of the building and a hard-packed gravel road/driveway runs along the eastern and southern sides of the building. Ten loading docks are located on the east wall of the facility; here the driving surface is paved in concrete. Several lean-to structures are on the south and west sides of the building. There is limited grassy terrain on the eastern and northern side of the Site. The topography of the Site gently slopes from the south to northeast. A shallow drainage ditch is located around the southern and eastern side of the Site and conveys runoff toward Cross Plains Boulevard. Samples collected from the southern drainage ditch did not contain concentrations of VOCs above HSRA Notification Concentrations (WRS, 2006). A subgrade storm drain system runs from the southeastern side of the building, across the spill area and then north to the ditch along Cross Plains Boulevard. There are no stream features on or adjacent to the Site. A topographic map is provided in Figure B-1 and the Site features are shown on Figure B-2.

### B.3. Source of Contamination

In January 1995, a documented release of approximately 585 gallons of reclaimed 1,1,1-trichloroethane (TCA) occurred from a delivery truck due to failure of the tanker sidewall. Figure B-2 depicts the approximate location of the spill<sup>3</sup>. Spill response involved containment of the spill area with dikes and product was recovered using a vac truck. Post spill response involved excavation of surface soils at the spill site and off-site disposal<sup>4</sup>. Groundwater samples

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<sup>3</sup> The location depicted for the tanker truck spill has been modified from previous depictions in the Corrective Action Plan Addendum (EPS, 2009) due to subsequently-discovered information.

<sup>4</sup> There is no documentation of the dimensions or specific locations of the soil excavation.

were not collected during the post spill response. An Environmental Investigation (Tri-State, 2004a) in August 2004, identified TCE, PCE, and daughter products in the subsurface and groundwater samples. This spill is the likely source of TCA and the daughter products detected in the groundwater. The spill is also the likely source of PCE/TCE and daughter products detected in the groundwater, as the reclaimed TCA likely contained PCE/TCE.

The ASTs near the tanker spill location are currently being used to store solvents for use in the facility's processes. The secondary containment appears in good condition.

## **B.4. Subsurface Features**

### **B.4.1. Geological Setting**

The Site occurs within the Valley and Ridge Physiographic Province of northwest Georgia. The province is dominated by a northward-trending valleys separated by low, rounded ridges and by high, steep-sided ridges (Cressler, 1974). The stratigraphic units below the Site are within the Conasauga Formation of the middle and late Cambrian system, which is underlain by the Rome Formation. Cressler (1974) describes the Conasauga Formation as follows:

Thickness: 3,000-5,000 feet (maximum thickness unknown)

Lithology: The formation consists of alternating units of shale and limestone that vary in thickness and relative proportion from place to place. In some areas the formation is mainly shale.

The middle unit of the Conasauga Formation is composed of approximately 1,000 feet of light green and yellowish clay shale containing small lenses of blue limestone. Some silty shale is also present, but in smaller quantities than in the lower unit.

A cross section location map is included as Figure B-3, and cross sections are shown on Figures B-4 and B-5. As depicted on these figures, the shallow stratigraphic profile at the Site consists of 4 to 6 feet of fill material placed during construction of the facility, followed by 10 to 15 feet of unconsolidated soil (clayey sand or sandy clay or shaley clay, but predominantly sandy clay) grading to weathered shale approximately to 15 to 30 feet bgs. Competent shale has been observed from 31 to 41 feet bgs and a harder rock (possibly limestone) has been observed below 41 feet bgs.

### **B.4.2. Hydrogeological Setting**

Cressler (1974) describes the hydrologic properties of the Conasauga Formation as follows:

Wells in shale yield up to 5 gpm, or in some locations 17 gpm; and dry wells also occur. Wells in limestone normally supply between 5 and 25 gpm and ones properly located with respect to the drainage will furnish up to 300 gpm. Most wells are less than 300 feet deep, though some extend to a depth of 500 feet. Wells penetrating shale and limestone mixed generally supply from about 2 to 20 gpm, but some yield up to 100 gpm if they are near a source of recharge. The well water varies from soft to hard and has a low to

moderate iron content. Some large springs have openings in the Conasauga, but discharge water from the Knox Group.

The water table at the Site fluctuates on the scale of 5 to 8 ft at a given location, with many locations exhibiting a high water table mark at the ground surface (i.e., artesian conditions). Although the water table intersects the ground surface, the conditions are such that there is no or minimal pooling of water on the ground surface. In the spring of 2011 a weekly groundwater measurement program was implemented for three consecutive weeks to better define the high water table conditions. Depth to groundwater measurements were made at all the existing wells at the Site on three consecutive weekly site visits. The results are presented in Table 1 of the Progress Report along with the results from sampling events since 2011. This information was combined with the historical groundwater measurements to determine the historical high water table elevations, which can be seen on the cross-sections (Figures B-4 and B-5). The table below shows the high water table mark for the shallow wells. Ten of the shallow wells have exhibited conditions where the groundwater table intersects the ground surface. The only wells that have consistently shown groundwater deeper than two feet below the ground surface are MW-6, MW-11, MW-12 and MW-13. Figure B-6 shows the locations of the wells and their high water table marks. The overall groundwater flow direction is to the northeast (as shown in the VIRP).

| Well  | High Water Table Mark:<br>Depth Below Ground Surface (ft) |
|-------|-----------------------------------------------------------|
| MW-1  | 0                                                         |
| MW-2  | 0                                                         |
| MW-3  | 0                                                         |
| MW-4  | 0                                                         |
| MW-5  | 0                                                         |
| MW-6  | 2.78                                                      |
| MW-7  | 0                                                         |
| MW-8  | 0                                                         |
| MW-9  | 0                                                         |
| MW-10 | 0.59                                                      |
| MW-11 | 2.09                                                      |
| MW-12 | 3.29                                                      |
| MW-13 | 2.16                                                      |
| MW-14 | 0                                                         |
| MW-15 | 0                                                         |
| MW-16 | 0.67                                                      |
| MW-17 | 0.72*                                                     |

\* Ground surface elevation unknown, depth below top of casing shown

The topographic map (Figure B-1) is dated 1982, prior to the construction of the facility. This map shows that the facility is located in a low topographic relief (valley) area. This figure (which shows the approximate location of the facility) also shows that an intermittent stream ran through where the southeastern corner of the building now stands. This stream ran in a northeasterly direction across where the Site now exists. This is the same direction as the groundwater flow seen currently at the site. As mentioned previously, there is 4 to 6 feet of fill material that was placed in this low topographic area during construction of the facility. The high water table conditions are explained by this original topographic setting. The valley bottom pitches from the south to the north creating artesian pressure when the water table is high.

Figure B-6 was used to define soil zones on the Site based on the high water table marks. The fully saturated zone is the area where the subsurface is fully saturated due to the water table intersecting the ground surface. The fully saturated zone shown on Figure B-6 was conservatively assumed to be the area between the wells where the groundwater table intersects the ground surface. It is likely that the actual fully saturated zone is larger than this area. In the fully saturated zone there is no vadose zone. The approximate depth of the vadose zone in other areas of the site shown on Figure B-6 are based on the depth to groundwater measurements. It is reasonable to infer that the fully saturated zone is located where the intermittent stream formerly ran.

Hydraulic gradients, hydraulic conductivity and transmissivity calculations<sup>5</sup> were presented in the CAP (WRS, 2006). Horizontal hydraulic gradients range from 0.0083 to 0.0125 ft/ft. The hydraulic conductivity ranges from 2.63 to 8.09 ft/day with an average and geometric mean of 5.3 and 4.5 ft/day. The transmissivity ranges from 244.61 to 1,452 gallons per day per foot (gpd/ft). Ranges of groundwater flow velocities were estimated using the modified Darcy equation:

$$V = Ki/n_e$$

where:  $V$  = average linear velocity  
 $K$  = hydraulic conductivity  
 $i$  = hydraulic gradient  
 $n_e$  = effective porosity

Groundwater flow velocities were estimated using the average hydraulic conductivity 5.3 ft/day and an estimated effective porosity ( $n_e$ ) for Site soils of 0.3. Using the range of hydraulic gradients (0.0083 to 0.0125 feet/ft), the range of groundwater flow velocities were calculated to be approximately 53 to 80 ft/year.

## B.5. Extent of Contamination

As mentioned previously, three different matrices are of interest at this Site: groundwater, vadose zone soil, and the solid aquifer matrix. The extent of contamination in each of these matrices is discussed in this section.

---

<sup>5</sup> Hydraulic conductivity and transmissivity were determined by slug tests on four monitoring wells using the Bouwer and Rice method.

### B.5.1. Groundwater Conditions

Twenty groundwater monitoring wells at the Site have been sampled over time (boring logs and well construction diagrams are presented in Appendix F and Appendix G of the VIRP, respectively) and two new wells were installed in 2012. Additionally, nine direct push-point water samples were collected in March 2009. A summary of the historical analytical results for constituents detected in the recent sampling event is presented in Table B-1.

Chlorinated ethenes and ethanes are the constituent groups of interest at the Site, associated with the 1995 spill event. TCA, PCE, and TCE have been consistently detected in groundwater above RRSs. These chlorinated solvents can degrade biologically in the subsurface. Through reductive dechlorination, parent compounds (i.e., TCA and PCE/TCE) can be degraded biologically into daughter products. TCA can be degraded into 1,1-dichloroethane (DCA) and then chloroethane (CA). Similarly, PCE can be degraded into TCE, cis-1,2-dichloroethene (DCE) and vinyl chloride (VC). Groundwater concentrations of total chlorinated ethenes (PCE, TCE, DCE and VC) in 2013 are shown in Figure B-7. Similarly, groundwater concentrations of total chlorinated ethanes (TCA, DCA and CA) are shown in Figure B-8. The spatial distribution of constituents in groundwater is consistent with the pattern observed in the subsurface solid matrix with groundwater exhibiting the highest concentrations at the location of the tanker truck spill. The primary direction of the groundwater plumes are to north and northeast of the basin, consistent with the direction of groundwater flow.

The distribution of parent compounds and daughter products demonstrate degradation has occurred over the Site's history, with degradation products having a tendency to exhibit a greater spatial distribution in the downgradient direction compared to the parent compounds. Degradation products also tend to exhibit higher concentrations down gradient from the tanker truck spill area compared to the source area at the tanker truck spill area.

Figures B-9 and B-10 show time series graphs for monitoring well MW-5 (which is in the plume, downgradient from the tanker truck spill area) for the PCE and TCA degradation parameters, respectively. These figures demonstrate that biodegradation is occurring in the plume. The figures clearly show that the peak for the parent compounds (TCE and TCA) appears first followed by the next degradation parameters (DCE and DCA) then the final degradation parameters (VC and CA). (There were only very small concentrations of PCE, likely due to biodegradation occurring prior to reaching MW-5.)

The plume has been characterized and delineated horizontally (see Figures B-7 and B-8) with MW-16 and MW-1R to the north, MW-14 to the east, MW-8 to the south and MW-17 to the west.

Two monitoring well clusters are available to evaluate vertical delineation (MW-2/MW-2D and MW-3/MW-3D/MW-3B). A review of data from the MW-2 and MW-3 well clusters identified VOCs in both the shallow and deeper wells, but both the number of constituents and concentrations are lower in the deepest well of each cluster. Thus, the concentrations of constituents decrease with depth.

Additionally, there is an upward vertical migration of groundwater. The tables below show the depth to groundwater measurements in each well cluster during the last three sampling events. Also shown on these tables are the range of possible vertical gradients and the groundwater vertical flow direction as determined by the EPA's online vertical gradient calculator<sup>6</sup>.

| Date                 | MW-2     | MW-2D     |                   |                |
|----------------------|----------|-----------|-------------------|----------------|
| TOC (ft)             | 675.33   | 674.79    |                   |                |
| Well Depth (ft)      | 15       | 17.3      |                   |                |
| Screen Interval (ft) | 5-15     | 12.3-17.3 |                   |                |
| Depth to Water (ft)  |          |           | Vertical Gradient | Flow Direction |
| 8/23/2012            | 6.65     | 6.04      | 0.009 to 0.21     | Up             |
| 2/4/2013             | Artesian | Artesian  | NA                | Up             |
| 8/5/2013             | 3.28     | 2.57      | 0.022 – 0.5       | Up             |

| Date                 | MW-3   | MW-3D     | MW-3B  |                           |                        |
|----------------------|--------|-----------|--------|---------------------------|------------------------|
| TOC (ft)             | 673.83 | 673.87    | 674.32 |                           |                        |
| Well Depth (ft)      | 15     | 22.5      | 49     |                           |                        |
| Screen Interval (ft) | 5-15   | 17.5-22.5 | 35-45  |                           |                        |
| Depth to Water (ft)  |        |           |        | Vertical Gradient MW-3/3B | Flow Direction MW-3/3B |
| 8/23/2012            | 5.4    | 5.25      | 5.29   | 0.015-0.031               | Up                     |
| 2/4/2013             | 0.98   | 0.75      | 0.25   | 0.031-0.062               | Up                     |
| 8/5/2013             | 2.58   | 2.73      | 2.45   | 0.015-0.03                | Up                     |

TOC: Top of casing elevation (ft msl)

Therefore, vertical delineation of groundwater has been addressed based on the upward vertical migration of groundwater, the decreasing concentrations with depth, and because source material is being addressed at the Site and the vertical groundwater condition does not affect the BIOCHLOR model predictions.

## B.5.2. Solid Aquifer Matrix and Vadose Zone Soil

### B.5.2.1. Subsurface Investigations and Matrix Classification

Although the solid aquifer matrix and vadose zone soil will be considered separately in terms of potential corrective action, for ease of presentation and delineation both matrices will be

<sup>6</sup> <http://www.epa.gov/athens/learn2model/part-two/onsite/vgradient.html>

discussed together. Seven subsurface investigations have been completed to date at the Site. A brief summary of the historical investigations is provided below. Solid-matrix samples were collected and analyzed for VOCs during these investigations both from the zone of the water table fluctuation and from beneath the low water table mark, for the purpose of helping to describe/define the groundwater conditions from a perspective of source area(s) that might warrant a different remedial action approach to that for the dissolved-phase plume. A summary of the analytical results is presented in Table B-2 and the sample locations are shown on Figure B-11. Available boring logs are presented in Appendix F of the VIRP.

Figure B-11 also shows the high water table zones. This figure was used to classify each sample collected as either vadose zone soil or being in the solid aquifer matrix by determining whether the sample collected was above or below the estimated high water table mark at that location and depth. Thus, Table B-2 indicates whether each sample is in the solid aquifer matrix or vadose zone soil.

July 2004 Subsurface Investigation. In July 2004, four solid matrix samples were collected during the installation of MW-1D, MW-2D, MW-3 and MW-3D. Sample collection depth ranged from 8 to 15 ft bgs. Chlorinated ethenes, ethanes and a single detection of toluene (at MW-2D) were detected in these solid matrix samples. Note that the high water table mark for these wells is less than 1 ft bgs (with all but MW-3D having a groundwater level at the ground surface), indicating that all of these solid matrix samples were collected from below the high water table mark.

August 2005 Subsurface Investigation. In August 2005, 13 solid matrix samples were collected from direct-push cores to the east of the main facility building (identified as the GP samples in Figure B-11). Samples were collected at depths from 2 to 8 ft bgs. The only sample locations that are in the greater than 2 ft high water table zone are GP007 and GP008. These two samples will be considered as representing the vadose zone while the remaining samples are in the solid aquifer matrix. Consistent with the July 2004 investigation, chlorinated ethenes and ethanes were detected in these samples.

June 2006 Subsurface Investigation. In June and July 2006, nine solid matrix samples were collected during the installation of additional site monitoring wells (MW-8 to MW-16 in Figure B-11). Samples were collected at depths from 5 to 15 ft bgs. The high water table mark for all of these locations is less than 5 feet, thus all of these samples are in the solid aquifer matrix. Only two sample locations exhibited chlorinated ethenes (MW-10 and MW-11) and one location exhibited compounds characteristic of petroleum hydrocarbons or BTEX compounds (MW-15).

MIP Profiling and Associated Core Sampling. Subsurface investigations were performed in October, 2008 to delineate conditions beneath the AST containment basin, beneath the nearby facility structure and areas hydraulically downgradient. These investigations were completed with a combination of both traditional direct-push core sampling and membrane interface probe (MIP) profiling. The MIP profiling, unlike tradition core sampling, yields nearly continuous measurements of total VOCs in the subsurface as it is advanced, providing a more continuous screening-level characterization of the subsurface conditions. Appendix I of the VIRP contains excerpts of the MIP data originally provided in the *Source Area Investigation Report* (EPS,

2008). Interpretation of the MIP profiles indicate that residual VOC product (if present) is entrained in the upper surficial deposits and has not been released in sufficient quantities to remain mobile and transport to deep depths. The MIP profiles also suggest the presence of a dissolved-phase plume.

After completion of the MIP field screening, six core samples were collected at offsets (1 to 2 ft) to the completed MIP borings to quantify VOCs and their respective concentrations (MIP sample series on Figure B-11). Solid media samples were collected to characterize a range of electron capture detector (ECD) responses from the MIP both above and below the measured water table during this point in time. A comparison of the core sample and MIP result are presented in Appendix I of the VIRP. All but two (MIP-6 and MIP-12) of these sample locations fall in the fully saturated zone, and are, therefore, classified as being in the solid aquifer matrix. MIP-6 and MIP-12 fall in the 0-1ft high water table zone. However, all of the samples collected at these locations were at depths greater than 1 ft bgs. Therefore, these samples are also classified as being in the solid aquifer matrix.

AST and Facility Subsurface Samples. On 12 January 2009, subsurface solid matrix samples (designated as “SS” samples on Figure B-11) were collected from multiple locations beneath the facility foundation slab, from beneath the AST containment basin slab, and one sample adjacent to the subgrade site storm drain. Concrete cores were removed from the facility foundation prior to the collection of direct-push cores. Samples from beneath the AST containment basin were collected by first hand-excavating a trench adjacent to the containment basin wall to allow access under the basin slab with a hand auger. A hand auger was then advanced at an angle horizontally underneath the AST containment basin slab (a few feet to the basin interior from the outer wall) to a depth of 1.5 to 2 ft. Seven of the locations (SS-BLDG-1, SS-BLDG-5, SS-BLDG-6, SS-AST-1, SS-AST-2, SS-HA-1, and SS-HA-2) sampled are within the fully saturated zones, and are thus in the solid aquifer matrix. Two of the locations (SS-BLDG-2 and SS-BLDG-4) are in the 0-1 ft high water table zone. Samples were collected at 1 ft bgs at each of these locations. Thus, these two samples are considered to be at the high water table, and, thus, are being considered vadose zone soil. However, another sample was collected below 1 ft bgs at location SS-BLDG-2 and is, thus, considered to be in the solid aquifer matrix. The remaining sample (SS-BLDG-3) is in the 1-2 ft high water table zone. The sample collected from this location was collected at 1 ft bgs and is, thus, considered a vadose zone soil.

Supplemental Subsurface and Groundwater Samples. On March 10, 2009, 10 subsurface solid matrix samples were collected from the area north of the AST containment basin and at the furthest known extent of the VOC groundwater plume. The highest concentrations were observed in SO-3, which was collected in the truck spill area, just north of the AST containment area. With the exception of SO-5, all of these sample locations were within the fully saturated zone. Therefore, the samples collected from these locations are considered to be in the solid aquifer matrix. SO-5 is in the 0-1 ft high water table zone; however, the sample collected at this location was at 5 ft bgs and is, thus, also in the solid aquifer matrix. In 2010, three soil samples were collected for estimating the permanganate natural oxidant demand. VOCs were also analyzed from one of these locations (SO-10), which was located next to the AST containment area.

AST Subgrade Investigation 2012. In July 2012, five locations in the AST containment area and four locations north of the AST containment area were sampled. Two samples were collected from each location at 1 and 2-ft bgs. All sample locations were within the fully saturated zone, and thus are classified as solid matrix samples.

Solid Matrix Investigation February 2013. In February 2013, nine locations east of the AST containment area were sampled. Three samples were collected from each location at 1-ft, 2-ft, and 4-ft bgs. All sample locations were within the fully saturated zone, and thus are classified as solid matrix samples.

#### B.5.2.2. Extent of Chlorinated Solvents

Figures B-12 and B-13 show the extent of total chlorinated ethenes and ethanes in these solid matrix samples, respectively. Where more than one sample was taken at a location, the highest total result is shown. The spatial distribution of chlorinated ethenes in the solid subsurface matrix exhibits a clear concentration gradient with the highest values occurring adjacent to the tanker truck spill location at the north end of the AST containment and the second highest concentrations toward the center of the AST containment area. The highest concentrations of chlorinated ethanes have been found in the AST containment area. Chlorinated solvent concentrations lessen with distance from the AST containment area. These areas of high concentrations are in the fully saturated zone indicating that it is comprised of the solid aquifer matrix (without any vadose zone soil).

#### B.5.2.3. Delineation

Delineation is only appropriate for the vadose zone soils. However, because much of the area of interest on the Site does not have vadose zone soils, the solid aquifer matrix is included on the delineation figures to aid in demonstrating delineation for the vadose zone soils. Figures B-12 and B-13 show that the solid matrix has been delineated to background in all directions, except for MW-11 on the west side. The only constituent detected in MW-11 is TCE at a concentration of 0.008 mg/kg, which is below the Type 1 RRS for trichloroethene (0.5 mg/kg). Thus, the solid matrix material has been delineated to the Type 1 RRS in all directions.

## B.6. Fate and Transport Summary

### B.6.1. Physical Fate and Transport

The primary parent constituents of interest at this Site are TCA, PCE, TCE and their breakdown products. In their product state, TCA, PCE and TCE are dense nonaqueous phase liquids (DNAPLs), which can be classified as either mobile or immobile. In the groundwater, they are found in a dissolved state. Thus, there are three states of interest: mobile DNAPL, immobile DNAPL and dissolved-phase. Following release at the surface, DNAPLs actively spread primarily due to gravity. Vertical migration continues through the vadose zone and aquifer until the released DNAPL either loses continuity and becomes dispersed into isolated bodies (referred to as ganglia or globules) or reaches a less permeable layer where it either accumulates in a pool or flows semi-laterally along the layer. During downward migration, a globule trail of residual

product and sorbed-phase contamination is left. The DNAPLs in this trail are incapable of further migration. Eventually, the entire DNAPL mass becomes immobile as the gravity head is lost.

When the groundwater comes in contact with a DNAPL, an aqueous phase plume is created and slowly fed by the sorbed, residual or pooled DNAPL. A residual-phase DNAPL source offers a large surface contact area (as compared to a pooled DNAPL) for contact with the groundwater, which results in a higher flux from the DNAPL state to the dissolved phase. This in turn results in an accelerated rate of DNAPL depletion. Once in the dissolved-phase, the solvents are transported in the water primarily along in the direction of the groundwater flow, but also horizontally (cross- or up-gradient) due to dispersion and diffusion. The aqueous phase plumes become elongated in the hydraulically down-gradient direction and are subject to attenuation process such as dispersion, sorption, matrix diffusion and biodegradation (discussed in the next section). All aqueous plumes will eventually reach a steady-state condition where the leading edge and side edges no longer expand. For this Site, the predominant groundwater flow is laterally downgradient (to the northeast). Additionally, the rapid rise and fall of the water table gives evidence that the groundwater provides for transport of dissolved phase chlorinated solvents to the ground surface (upward migration) through artesian flow and very shallow water table conditions. The water table fluctuation brings dissolved phase contaminants into contact with the solid matrix, resulting in the contaminant becoming entrained and sorbed in the solid matrix. Thus, the fluctuating groundwater table is another transport mechanism occurring at the Site. The groundwater could carry the solvents both horizontally and upwards toward the surface. This creates another potential exposure pathway (exposure to groundwater at the ground surface) that will be evaluated.

PCE has been measured as high as 3.9 mg/L at MW-3, which is next to the location of the spill. This concentration represents approximately 3.2% of the aqueous solubility. According to Cherry and Feenstra (1991), concentrations exceeding 1% of the compound's aqueous solubility indicates the possible presence of DNAPL. Thus, there may be a continuing flushing of PCE from the aquifer matrix near the spill site. An evaluation of the site conditions indicates that at this Site any DNAPLs have remained as a residual smearing in the upper portions of the subsurface and are not present as mobile "pools" of NAPL.

Data collected from groundwater and solid matrix samples at the Site support the lateral movement of dissolved-phase solvents by groundwater. Concentrations in the shallow solid matrix samples outside the vicinity of the AST containment area are attributable to the migration of the contaminants in the shallow fluctuating groundwater. The analytical results of the downgradient wells indicate that the plume has migrated to the northeast (in the direction of groundwater flow). The dissolved plume has been delineated in the downgradient direction and has not migrated off the Site.

## **B.6.2. Biological Degradation**

Chlorinated solvents can also degrade biologically in the subsurface through reductive dechlorination. As mentioned previously, parent compounds (i.e., TCA and PCE) can be

degraded biologically into daughter products (DCA, CA, TCE, DCE and VC). Four lines of evidence are presented in this section to demonstrate that reductive dechlorination is occurring.

#### B.6.2.1. Daughter Products and Time Series Graphs

The presence of the daughter products at the Site indicates that biological degradation is occurring. Additionally, time series figures (Figures B-9 and B-10) show the decrease of parent products and subsequent increase in daughter products over time.

#### B.6.2.2. MNA Parameters and Screening Method

Other parameters can also be used to indicate that biodegradation is occurring. During the October 2010 sampling event, additional analyses were conducted to provide evidence as to whether or not reductive dechlorination is occurring at the Site. Monitored Natural Attenuation (MNA) parameters were analyzed in samples collected from MW-3, MW-3D, MW-4, MW-5 and MW-8. The following parameters were analyzed by AES for each of these wells: alkalinity, sulfide, methane/ethane/ethene, chloride, ferrous iron, nitrate, nitrite, sulfate, and total organic carbon. These laboratory data sheets are presented in Appendix H of the VIRP. Parameters measured in the field during sample collection included: dissolved oxygen, temperature, pH and Redox potential. As a part of the microbial testing conducted by Microbe Inotech Laboratories, certain MNA parameters (pH, iron, ammonia, nitrite, nitrate, orthophosphate, sulfate and total organic carbon) were also analyzed for MW-3, MW-3D, MW-4 and MW-5.

As part of the process for determining whether anaerobic biodegradation is occurring, the Environmental Protection Agency (EPA) guidance document “*Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater*” (EPA, 1998) includes a scoring process using indicator parameters. Table B-3 shows the results of this screening at the Site using data collected during the October 2010 sampling event. Results are shown for the primary wells within the plume (MW-3/3D, MW-4, and MW-5), two side-gradient wells (MW-12 and MW-14), and an upgradient well (MW-8) and downgradient well (MW-16). Based on the October 2010 results, the wells within the plume show strong evidence that reductive dechlorination is occurring, while the wells up-, side- or down-gradient of the plume show limited or inadequate evidence that reductive dechlorination is occurring, which is not unexpected since there are low to non-detectable concentrations of chlorinated solvents in these wells. Results of MNA testing from the February 2012 sampling event continue to show that reductive dechlorination is occurring (see Table 4 of the First Semiannual Progress Report).

#### B.6.2.3. Microbial Testing

Tables B-4 and B-5 show the results of microbial testing at two different laboratories. Microbe Inotech Laboratories performed the first type of testing, which was based on doing anaerobic (Table B-4) and aerobic (Table B-5) cultures using plate counting techniques. The laboratory data report can be found in Appendix H of the VIRP. The first column shows the density (number of colony forming units per mL) of anaerobic or aerobic organisms from each well. The next several columns show the percent of different strains of organisms that were seen in the culture from each well. After identification of the strains, an endpoint assay was conducted on each strain. The strains were individually cultured with either TCA or TCE as the carbon source. The endpoint assay results (shown at the bottom of each table) show that the microorganisms

present in MW-3D and MW-5 grow very well on TCA and TCE. Interestingly, the aerobic assay shows that the microorganisms in MW-5 also grow very well on TCA or TCE. This indicates the potential for multiple types of mechanisms to occur at the Site. This testing shows that degradation of TCA and TCE is favorable in MW-5 and to a lesser extent in MW-3D. One drawback of the plate counting technique is that it does not account for viable (live) cells and cultivation techniques can underestimate the total population.

Microbial Insights performed the second microbial testing technique, which is called CENSUS. The laboratory data report is presented in Appendix H of the VIRP. DNA is extracted from the groundwater samples and quantitative real-time polymerase chain reaction analysis is used to detect and quantify specific targets of interest (e.g., a specific microbial species). Samples from MW-3 and MW-5 were analyzed for *Dehalococcoides spp* and *Dehalobacter spp*, both of which are common dechlorinating bacteria. *Dehalococcoides spp* is the only known group of bacteria capable of completely degrading PCE to ethene. *Dehalobacter spp* is capable of dechlorinating PCE to cis-DCE and TCA to chloroethane. Thus, the presence of these species indicates that reductive dechlorination of PCE/TCE and TCA is favorable and likely occurring. The functional genes for *Dehalococcoides spp* were also analyzed to determine if the genes are present that are necessary for the different steps in the dechlorination chain. *tceA* reductase is the gene responsible for reducing TCE to DCE. Vinyl chloride reductase is the gene responsible for reducing vinyl chloride to ethene in multiple strains. Similarly, *bvcA* reductase is the gene responsible for vinyl chloride reducing to ethene, but only for a specific strain (BAV1) of *Dehalococcoides spp*. The absence of VC reductase and *bvcA* reductase would indicate that vinyl chloride would accumulate instead of further degrading to ethene. The results (Table B-4) show that these organisms and genes are present in both wells, but are significantly higher in MW-5. This indicates that the conditions are favorable and most likely occurring for reductive dechlorination of PCE to ethene and TCA to chloroethane in both of these wells, but is much more likely in MW-5.

Based on these results, conditions are favorable at the Site for reductive dechlorination, especially in the direction of MW-3 to MW-5.

#### B6.2.4. Modeling

Computer modeling using BIOCHLOR (see Appendix J of the VIRP) provides further evidence that reductive dechlorination is occurring. BIOCHLOR is a computer model that simulates natural attenuation of dissolved chlorinated solvents. In an effort to conservatively model site conditions, the model was calibrated using the empirical data collected from 2004 through 2007, prior to the EHC<sup>®</sup> injections. Therefore, the model assumes that there is no impact from the injections. Model simulations were conducted through 2030 to determine estimated concentrations at different wells throughout and beyond the plume. Please refer to Appendix J of the VIRP for more information. Results from the August 2013 sampling event are compared to the 2013 model results in Figures 5 and 6 of the Progress Report.

## **B.7. Potential Receptors and Exposure Pathways**

### **B.7.1. Setting**

The Site includes a single-story manufacturing building, parking lots located to the east and north of the building, loading docks on the east side of the building, a gravel driveway to the east and south of the building and small grassy areas on the eastern and northern portions of the Site.

The adjoining properties are used for commercial purposes or are currently vacant. Properties immediately adjacent to the Site include the Parish Towing Company to the north, the Anderson Company to the east and vacant wooded properties to the South and West. The area surrounding the Site is zoned for heavy manufacturing, with some general agricultural zoned areas beyond the manufacturing zoning.

### **B.7.2. Human Health**

The nearest residence is greater than 2000 feet northwest of the Site. The Site and surrounding area are serviced by public drinking water system provided by Dalton Utilities. According to a representative at Dalton Utilities, all of Whitfield County is served by the utility. The closest drinking water well is located 1.125 miles from the Site. In addition, as described in the Release Notification (Tri-State, 2004b): a) groundwater flow at the Site is to the northeast and this well is to the north-northwest, b) the Site and the well are approximately at the same elevation resulting in no head difference to drive groundwater toward the well, c) based on surface water drainages the Site and the well are cross-gradient, and d) there are multiple groundwater divides between the Site and the well that would prevent groundwater migration from the Site to the well. Thus, the well is not directly downgradient of the Site and the well is located in an area where public water is available. As the Site and surrounding areas are on public water, ingestion of groundwater is not a complete exposure pathway.

The other potential exposure pathways include exposure to vadose zone soil, source material in the solid aquifer matrix, dermal contact with groundwater and vapor intrusion. The potential human receptors include an industrial worker and construction/utility worker.

#### **B.7.2.1. Industrial Worker**

As the area impacted by the release is mostly covered by concrete and/or gravel, exposure to vadose zone soil or potential source material in the solid aquifer matrix is not a complete exposure pathway for the industrial worker. However, due to the shallow depth of groundwater, potential exposure of workers to groundwater at the surface will be evaluated under the VRP program for this Site; however, there is no or minimal pooling of water at the ground surface.

Some chlorinated compounds have been detected in wells inside the manufacturing building. Thus, there is a potential for a vapor intrusion pathway. The EPD has requested that vapor intrusion modeling be conducted for the Site. However, as discussed in Section 6.1 of the First Semiannual Progress Report, the evaluation of vapor intrusion is inappropriate for this Site as OSHA regulations take precedence for the protection of worker safety. However, we will revisit vapor intrusion at the time of the evaluation of the remedial action at the site.

#### B.7.2.2. Construction and Utility Workers

The current and/or potential future human receptors are Construction and Utility Workers. No construction or utility activities are currently planned at the Site; however, it is possible that additional buildings could be constructed on the Site in the future. Construction or utility works may be exposed by physical contact with contaminated groundwater, vadose zone soils and/or the solid aquifer matrix. The potential risk to Construction or Utility Workers in physical contact with groundwater, vadose zone soils and/or source material in the solid aquifer matrix at the Site will be evaluated as a part of the VRP program.

#### B.7.3. Ecological

The area impacted by the release is mostly covered by concrete and/or gravel. There is continual traffic over this area and unloading operations. The area does not represent quality habitat as it lacks natural vegetative cover, structure, and diversity and is unlikely to ever have substantial vegetative cover due to ongoing maintenance activities. Disturbances from vehicles and facility operations have and will continue to disturb wildlife and cause animals to seek less frequently disturbed areas off the Site.

## **TABLES**

Capitol Adhesives  
Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)

| Well             | Date Sampled | Tetra<br>chloro<br>ethene<br>(mg/L) | Trichloro<br>ethene<br>(mg/L) | cis-1,2-<br>Dichloro<br>ethene<br>(mg/L) | Vinyl<br>chloride<br>(mg/L) | Total<br>Chlorinated<br>Ethenes<br>(mg/L) | 1,1,1-<br>Trichloroet<br>hane<br>(mg/L) | 1,1-<br>Dichloro<br>ethane<br>(mg/L) | Chloro<br>ethane<br>(mg/L) | Total<br>Chlorinated<br>Ethaness<br>(mg/L) | 1,1,2-<br>Trichloro<br>ethane<br>(mg/L) | 1,1-<br>Dichloro<br>ethene<br>(mg/L) | 1,2-<br>Dichloro<br>ethane<br>(mg/L) | Acetone<br>(mg/L) | Benzene<br>(mg/L) | Chloroform<br>(mg/L) | Cyclo<br>hexane<br>(mg/L) | Dichloro<br>methane<br>(mg/L) | Freon-11<br>(mg/L) | Freon-113<br>(mg/L) | Methyl<br>cyclo<br>hexane<br>(mg/L) | o-Xylene<br>(mg/L) | Toluene<br>(mg/L) | trans-1,2-<br>Dichloroet<br>hene<br>(mg/L) |
|------------------|--------------|-------------------------------------|-------------------------------|------------------------------------------|-----------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|-------------------|-------------------|----------------------|---------------------------|-------------------------------|--------------------|---------------------|-------------------------------------|--------------------|-------------------|--------------------------------------------|
| Type 1 RRS or DL |              | 0.005                               | 0.005                         | 0.07                                     | 0.002                       |                                           | 0.2                                     | 4                                    | DL                         |                                            | 0.005                                   | 0.007                                | 0.005                                | 4                 | 0.005             | 0.08                 | DL                        | 0.005                         | 2                  | 1000                | DL                                  | 10                 | 1                 | 0.1                                        |
| DPGW-1           | 3/10/09      | 0.24                                | 0.25                          | 0.058                                    | 0.016                       | 0.564                                     | 0.08                                    | 0.038                                | <0.01                      | 0.118                                      | <0.005                                  | 0.077                                | 0.04                                 | <0.05             | <0.005            | 0.061                | <0.005                    | 0.063                         | <0.005             | <0.01               | 0.0055                              | <0.005             | <0.005            | 0.0072                                     |
| DPGW-2           | 3/10/09      | 0.0085                              | 0.044                         | 0.97                                     | 1.3                         | 2.3225                                    | 0.03                                    | 0.24                                 | 0.61                       | 0.88                                       | <0.005                                  | 0.22                                 | 0.33                                 | 1.8               | <0.005            | 0.029                | <0.005                    | 0.077                         | <0.005             | 0.064               | <0.005                              | <0.005             | <0.005            | 0.085                                      |
| DPGW-3           | 3/10/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| DPGW-4           | 3/10/09      | <0.005                              | 0.0074                        | <0.005                                   | <0.002                      | 0.0074                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| DPGW-5           | 3/10/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| DPGW-6           | 3/10/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| DPGW-7           | 3/10/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| DPGW-8           | 3/10/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-1R            | 8/23/2012    | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | <0.005                                     | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-1R            | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 7/15/04      | 0.0424                              | 0.0089                        | ND                                       | ND                          | 0.0513                                    | 0.0039                                  | ND                                   | ND                         | 0.0039                                     | <0.005                                  | ND                                   | ND                                   | <0.1              | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | ND                | ND                                         |
| MW-2             | 8/10/05      | 0.19                                | 0.057                         | 0.0082                                   | 0.003                       | 0.2582                                    | 0.0017                                  | 0.017                                | <0.001                     | 0.0187                                     | <0.001                                  | 0.004                                | <0.001                               | <0.1              | <0.001            | <0.001               |                           | <0.001                        | <0.001             |                     |                                     |                    | <0.001            | <0.001                                     |
| MW-2             | 6/28/06      | 0.065                               | 0.01                          | <0.005                                   | <0.002                      | 0.075                                     | <0.005                                  | 0.004 J                              | <0.005                     | 0.004                                      | <0.005                                  | <0.005                               | <0.005                               | <0.1              | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-2             | 3/7/07       | <0.005                              | <0.005                        | 0.02                                     | <0.002                      | 0.02                                      | <0.005                                  | <0.005                               | <0.005                     | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 4.23              | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-2             | 6/25/07      | <0.005                              | <0.005                        | 0.004 J                                  | 0.061                       | 0.065                                     | <0.005                                  | <0.005                               | <0.005                     | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.934             | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | 0.005             | <0.005                                     |
| MW-2             | 9/13/07      | ND                                  | ND                            | ND                                       | 0.022                       | 0.022                                     | ND                                      | ND                                   | ND                         | ND                                         | ND                                      | ND                                   | ND                                   | ND                | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | 0.005             | ND                                         |
| MW-2             | 4/8/08       | ND                                  | ND                            | ND                                       | 0.008                       | 0.008                                     | ND                                      | ND                                   | ND                         | ND                                         | ND                                      | ND                                   | ND                                   | ND                | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | 1.09              | ND                                         |
| MW-2             | 10/14/08     | 0.083                               | 0.061                         | 0.034                                    | 0.17                        | 0.348                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.71              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | 0.41              | <0.005                                     |
| MW-2             | 6/22/09      | <0.005                              | <0.005                        | <0.005                                   | 0.0037                      | 0.0037                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.11              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 10/8/10      | 0.069                               | 0.096                         | 0.033                                    | 0.0075                      | 0.2055                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 2/8/2012     | <0.005                              | <0.005                        | 0.0061                                   | 0.0025                      | 0.0086                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.38              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2             | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.2               | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 7/19/04      | ND                                  | ND                            | ND                                       | ND                          | ND                                        | ND                                      | ND                                   | ND                         | ND                                         | ND                                      | ND                                   | ND                                   | <0.1              | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | 0.0041            | ND                                         |
| MW-2D            | 8/10/05      | 0.0037                              | 0.018                         | <0.001                                   | <0.001                      | 0.0217                                    | 0.0024                                  | <0.001                               | <0.001                     | 0.0024                                     | <0.001                                  | <0.001                               | <0.001                               | <0.1              | <0.001            | <0.001               |                           | <0.001                        | <0.001             |                     |                                     |                    | <0.001            | <0.001                                     |
| MW-2D            | 6/28/06      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.005                     | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.1              | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-2D            | 3/7/07       | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.138             | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-2D            | 6/25/07      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.1              | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-2D            | 9/13/07      | ND                                  | ND                            | ND                                       | ND                          | ND                                        | ND                                      | ND                                   | ND                         | ND                                         | ND                                      | ND                                   | ND                                   | ND                | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | ND                | ND                                         |
| MW-2D            | 10/14/08     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 6/22/09      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 17                | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 10/8/10      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 2/8/2012     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.071             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-2D            | 2/5/2013     | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | 0.31              | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-3             | 7/15/04      | 1.86                                | 6.15                          | 0.123                                    | 0.0204                      | 8.1534                                    | 3.26                                    | 0.725                                | ND                         | 3.985                                      | 0.0217                                  | 2.19                                 | 0.86                                 | <0.1              | 0.0073            | 1.2                  |                           | 0.435                         | ND                 |                     |                                     |                    | 0.0038            | 0.116                                      |
| MW-3             | 8/10/05      | 2.6                                 | 5.2                           | 0.14                                     | <0.005                      | 7.94                                      | 2.6                                     | 0.41                                 | <0.005                     | 3.01                                       | <0.005                                  | 1.7                                  | 0.45                                 | <0.1              | <0.05             | 0.64                 |                           | 0.45                          | <0.05              |                     |                                     |                    | <0.005            | 0.093                                      |
| MW-3             | 6/26/06      | 2.92                                | 4.71                          | 0.197                                    | 0.004                       | 7.831                                     | 1.85                                    | 0.349                                | <0.005                     | 2.199                                      | 0.016                                   | 1.67                                 | 0.495                                | <0.1              | <0.005            | 0.643                |                           | 0.494                         | 0.01               |                     |                                     |                    | <0.005            | 0.1                                        |
| MW-3             | 3/7/07       | 2.9                                 | 5.83                          | 0.378                                    | 0.002                       | 9.11                                      | 2.27                                    | 0.352                                | <0.01                      | 2.622                                      | 0.018                                   | 1.99                                 | 1.15                                 | <0.1              | 0.006             | 1.06                 |                           | 0.438                         | 0.014              |                     |                                     |                    | <0.005            | 0.104                                      |
| MW-3             | 6/25/07      | 2.62                                | 5.53                          | 0.59                                     | 0.005                       | 8.745                                     | 1.72                                    | 0.433                                | <0.01                      | 2.153                                      | 0.024                                   | 3.06                                 | 0.771                                | <0.1              | 0.008             | 1.14                 |                           | 0.725                         | 0.019              |                     |                                     |                    | <0.005            | 0.185                                      |
| MW-3             | 9/14/07      | 2.88                                | 5.87                          | 0.58                                     | 0.003                       | 9.333                                     | 1.43                                    | 0.38                                 | ND                         | 1.81                                       | 0.023                                   | 2.55                                 | 0.781                                | ND                | 0.007             | 0.964                |                           | 0.183                         | ND                 |                     |                                     |                    | ND                | 0.139                                      |
| MW-3             | 4/9/08       | 2.41                                | 4.1                           | 0.636                                    | 0.011                       | 7.157                                     | 0.7590001                               | 0.333                                | ND                         | 1.0920001                                  | 0.021                                   | 1.78                                 | 0.781                                | ND                | 0.006             | 0.758                |                           | 0.172                         | ND                 |                     |                                     |                    | ND                | 0.113                                      |
| MW-3             | 10/16/08     | 3.9                                 | 5.9                           | 1.1                                      | 0.032                       | 10.93                                     | 0.9300001                               | 0.46                                 | <0.01                      | 1.39                                       | 0.021                                   | 3.1                                  | 0.7600001                            | <0.05             | 0.0074            | 1.1                  | 0.014                     | 0.024                         | 0.02               | 0.49                | 0.0089                              | <0.005             | <0.005            | 0.099                                      |
| MW-3             | 6/23/09      | 3.2                                 | 4.6                           | 0.84                                     | 0.05                        | 8.69                                      | 0.79                                    | 0.31                                 | <0.01                      | 1.1                                        | 0.021                                   | 2.4                                  | 0.77                                 | <0.05             | <0.005            | 0.99                 | <0.005                    | 0.066                         | 0.01               | 0.31                | 0.0064                              | <0.005             | <0.005            | 0.14                                       |
| MW-3             | 10/7/10      | 3                                   | 4.5                           | 1                                        | 0.11                        | 8.61                                      | 0.59                                    | 0.31                                 | <0.01                      | 0.9                                        | 0.023                                   | 1.7                                  | 0.74                                 | <0.05             | 0.0068            | 0.88                 | 0.012                     | 0.041                         | 0.0057             | 0.22                | 0.0078                              | <0.005             | <0.005            | 0.12                                       |
| MW-3             | 2/9/12       | 3 E                                 | 4.2 E                         | 1.9 E                                    | 0.24 E                      | 9.34                                      | 0.59 E                                  | 0.49 E                               | <0.01                      | 1.08                                       | 0.024                                   | 2.6 E                                | 1 E                                  | <0.05             | 0.0076            | 1.1 E                | 0.024                     | 0.066                         | 0.0096             | 0.24 E              | 0.012                               | <0.005             | 0.0052            | 0.17                                       |
| MW-3             | 8/24/2012    | 3.4                                 | 6.1                           | 2.9                                      | 0.23                        | 12.63                                     | 0.52                                    | 0.54                                 | <0.01                      | 1.06                                       | 0.047                                   | 3                                    | 1.3                                  | <0.05             | 0.013             | 1.8                  | <0.005                    | 0.045                         | <0.005             | <0.01               | 0.0068                              | 0.0052             | 0.0072            | 0.18                                       |
| MW-3             | 2/6/13       | 3.5                                 | 5                             | 2.6                                      | 0.3                         | 11.4                                      | 0.56                                    | 0.6                                  | <0.01                      | 1.16                                       | <0.005                                  | 2.9                                  | 1.3                                  | 3.7               | 0.009800001       | 1.80                 | 0.023                     | 0.011                         | 0.0078             | 0.3                 | 0.016                               | <0.005             | <0.005            | 0.24                                       |
| MW-3             | 8/6/2013     | 2.9                                 | 4.8                           | 2.3                                      | 0.23                        | 10.23                                     | 0                                       |                                      |                            |                                            |                                         |                                      |                                      |                   |                   |                      |                           |                               |                    |                     |                                     |                    |                   |                                            |

Capitol Adhesives  
Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)

| Well             | Date Sampled | Tetra<br>chloro<br>ethene<br>(mg/L) | Trichloro<br>ethene<br>(mg/L) | cis-1,2-<br>Dichloro<br>ethene<br>(mg/L) | Vinyl<br>chloride<br>(mg/L) | Total<br>Chlorinated<br>Ethenes<br>(mg/L) | 1,1,1-<br>Trichloroet<br>hane<br>(mg/L) | 1,1-<br>Dichloro<br>ethane<br>(mg/L) | Chloro<br>ethane<br>(mg/L) | Total<br>Chlorinated<br>Ethaness<br>(mg/L) | 1,1,2-<br>Trichloro<br>ethane<br>(mg/L) | 1,1-<br>Dichloro<br>ethene<br>(mg/L) | 1,2-<br>Dichloro<br>ethane<br>(mg/L) | Acetone<br>(mg/L) | Benzene<br>(mg/L) | Chloroform<br>(mg/L) | Cyclo<br>hexane<br>(mg/L) | Dichloro<br>methane<br>(mg/L) | Freon-11<br>(mg/L) | Freon-113<br>(mg/L) | Methyl<br>cyclo<br>hexane<br>(mg/L) | o-Xylene<br>(mg/L) | Toluene<br>(mg/L) | trans-1,2-<br>Dichloroet<br>hene<br>(mg/L) |
|------------------|--------------|-------------------------------------|-------------------------------|------------------------------------------|-----------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------|--------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|-------------------|-------------------|----------------------|---------------------------|-------------------------------|--------------------|---------------------|-------------------------------------|--------------------|-------------------|--------------------------------------------|
| Type 1 RRS or DL |              | 0.005                               | 0.005                         | 0.07                                     | 0.002                       |                                           | 0.2                                     | 4                                    | DL                         |                                            | 0.005                                   | 0.007                                | 0.005                                | 4                 | 0.005             | 0.08                 | DL                        | 0.005                         | 2                  | 1000                | DL                                  | 10                 | 1                 | 0.1                                        |
| MW-3D (Dup)      | 6/23/09      | 0.86                                | 0.86                          | 0.19                                     | 0.058                       | 1.97                                      | 0.53                                    | 0.13                                 | <0.01                      | 0.66                                       | <0.005                                  | 0.29                                 | 0.13                                 | <0.05             | <0.005            | 0.13                 | <0.005                    | <0.005                        | <0.005             | 0.098               | <0.005                              | <0.005             | <0.005            | 0.023                                      |
| MW-3D            | 10/7/10      | 1.1                                 | 1.3                           | 0.3                                      | 0.077                       | 2.78                                      | 0.53                                    | 0.15                                 | <0.01                      | 0.68                                       | 0.0065                                  | 0.52                                 | 0.2                                  | <0.05             | <0.005            | 0.21                 | <0.005                    | <0.005                        | <0.005             | 0.07                | <0.005                              | <0.005             | <0.005            | 0.031                                      |
| MW-3D            | 2/8/12       | 0.93                                | 1                             | 0.41                                     | 0.12                        | 2.46                                      | 0.46                                    | 0.19                                 | <0.01                      | 0.65                                       | <0.005                                  | 0.55                                 | 0.16                                 | <0.05             | <0.005            | 0.15                 | <0.005                    | <0.005                        | <0.005             | 0.082               | 0.005                               | <0.005             | <0.005            | 0.034                                      |
| MW-3D (Dup)      | 2/8/12       | 0.99                                | 1.1                           | 0.46                                     | 0.12                        | 2.67                                      | 0.48                                    | 0.19                                 | <0.01                      | 0.67                                       | 0.0056                                  | 0.6                                  | 0.16                                 | <0.05             | <0.005            | 0.18                 | <0.005                    | <0.005                        | <0.005             | 0.08000001          | 0.0055                              | <0.005             | <0.005            | 0.034                                      |
| MW-3D            | 8/24/12      | 0.88                                | 1.1                           | 0.51                                     | 0.1                         | 2.59                                      | 0.3                                     | 0.18                                 | <0.01                      | 0.48                                       | 0.0079                                  | 0.46                                 | 0.24                                 | <0.05             | <0.005            | 0.23                 | <0.005                    | 0.014                         | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.033                                      |
| MW-3D (Dup)      | 8/24/2012    | 0.9                                 | 1.1                           | 0.45                                     | 0.11                        | 2.56                                      | 0.25                                    | 0.18                                 | <0.01                      | 0.43                                       | 0.0075                                  | 0.49                                 | 0.19                                 | <0.05             | <0.005            | 0.23                 | <0.005                    | 0.014                         | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.032                                      |
| MW-3D            | 2/6/2013     | 2.00                                | 1.7                           | 0.97                                     | 0.15                        | 4.82                                      | 0.45                                    | 0.14                                 | <0.01                      | 0.59                                       | <0.005                                  | 0.57                                 | 0.19                                 | 0.62              | <0.005            | 0.15                 | 0.0061                    | 0.017                         | <0.005             | 0.04                | 0.013                               | <0.005             | <0.005            | 0.028                                      |
| MW-3D            | 8/6/2013     | 2.9                                 | 4.8                           | 2.9                                      | 0.28                        | 10.88                                     | 0.53                                    | 0.28                                 | 0.011                      | 11.701                                     | 0.017                                   | 0.87                                 | 0.41                                 | 0.1               | <0.005            | 0.36                 | <0.005                    | 0.027                         | <0.005             | 0.13                | 0.051                               | 0.02               | 0.063             | 0.0073                                     |
| MW-3B            | 8/24/2012    | 0.52                                | 0.37                          | 0.15                                     | 0.061                       | 1.10                                      | 0.04                                    | 0.075                                | <0.01                      | 0.115                                      | <0.005                                  | 0.17                                 | 0.04                                 | <0.05             | <0.005            | 0.02                 | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.0089                                     |
| MW-3B            | 2/6/2013     | 0.82                                | 0.36                          | 0.17                                     | 0.071                       | 1.42                                      | 0.052                                   | 0.064                                | <0.01                      | 0.116                                      | <0.005                                  | 0.2                                  | 0.032                                | <0.05             | <0.005            | 0.031                | <0.005                    | <0.005                        | <0.005             | 0.03                | <0.005                              | <0.005             | <0.005            | 0.0086                                     |
| MW-4             | 8/10/05      | 0.064                               | 0.52                          | <0.005                                   | <0.005                      | 0.584                                     | 0.028                                   | <0.005                               | <0.005                     | 0.028                                      | <0.005                                  | 0.0078                               | <0.005                               | <0.1              | <0.005            | 0.0056               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-4             | 6/27/06      | 0.157                               | 0.615                         | <0.005                                   | <0.002                      | 0.772                                     | 0.024                                   | <0.005                               | <0.005                     | 0.024                                      | <0.005                                  | 0.017                                | <0.005                               | <0.1              | <0.005            | 0.005                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-4             | 3/7/07       | 0.049                               | 0.138                         | 0.139                                    | <0.002                      | 0.326                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | 0.006                                | <0.005                               | 6.3               | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-4             | 6/25/07      | <0.005                              | <0.005                        | 0.832                                    | 0.003                       | 0.835                                     | <0.005                                  | 0.008                                | <0.01                      | 0.008                                      | <0.005                                  | 0.016                                | <0.005                               | 2.74              | <0.005            | <0.005               |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-4             | 9/14/07      | ND                                  | 0.005                         | 0.846                                    | 0.055                       | 0.906                                     | ND                                      | 0.014                                | ND                         | 0.014                                      | ND                                      | 0.034                                | 0.009                                | ND                | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | ND                | ND                                         |
| MW-4             | 4/8/08       | 0.01                                | 0.018                         | 0.244                                    | 0.022                       | 0.294                                     | ND                                      | ND                                   | ND                         | ND                                         | ND                                      | 0.006                                | ND                                   | ND                | ND                | ND                   |                           | ND                            | ND                 |                     |                                     |                    | ND                | ND                                         |
| MW-4             | 10/15/08     | 0.013                               | 0.034                         | 0.76                                     | 0.3                         | 1.11                                      | <0.005                                  | 0.011                                | <0.01                      | 0.011                                      | <0.005                                  | 0.022                                | 0.0069                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 6/23/09      | 0.03                                | 0.064                         | 0.12                                     | 0.12                        | 0.334                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | 0.0054                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 10/12/10     | 0.019                               | 0.086                         | 0.057                                    | 0.059                       | 0.221                                     | <0.005                                  | 0.0062                               | <0.01                      | 0.0062                                     | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 2/8/12       | 0.017                               | 0.041                         | 0.033                                    | 0.011                       | 0.102                                     | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 8/23/12      | <0.005                              | 0.013                         | 0.012                                    | 0.0058                      | 0.0308                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 2/5/13       | <0.005                              | 0.0066                        | <0.005                                   | <0.002                      | 0.0066                                    | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-4             | 8/5/13       | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | <0.005                                  | <0.005                               | <0.01                      | ND                                         | <0.005                                  | <0.005                               | <0.005                               | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | <0.005                                     |
| MW-5             | 8/10/05      | 0.016                               | 0.56                          | 0.093                                    | <0.005                      | 0.669                                     | 0.44                                    | 0.34                                 | <0.005                     | 0.78                                       | 0.0082                                  | 0.85                                 | 0.32                                 | <0.01             | <0.005            | 0.34                 |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.051                                      |
| MW-5             | 6/27/06      | 0.077                               | 1.37                          | 0.141                                    | 0.008                       | 1.596                                     | 0.511                                   | 0.485                                | <0.005                     | 0.996                                      | 0.012                                   | 1.3                                  | 0.388                                | <0.01             | 0.005             | 0.361                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.086                                      |
| MW-5             | 3/6/07       | 0.085                               | 1.07                          | 1                                        | 0.004                       | 2.159                                     | <0.005                                  | 0.58                                 | <0.01                      | 0.58                                       | 0.012                                   | 1.87                                 | 0.781                                | <0.01             | 0.005             | 0.527                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.084                                      |
| MW-5             | 6/25/07      | 0.015                               | 0.325                         | 2.32                                     | 0.007                       | 2.667                                     | 0.309                                   | 0.483                                | <0.01                      | 0.792                                      | 0.011                                   | 1.5                                  | 0.355                                | <0.01             | 0.006             | 0.332                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.11                                       |
| MW-5             | 9/13/07      | ND                                  | 0.066                         | 2.78                                     | 0.005                       | 2.851                                     | 0.232                                   | 0.587                                | ND                         | 0.819                                      | 0.011                                   | 1.72                                 | 0.502                                | ND                | 0.005             | 0.252                |                           | 0.009                         | ND                 |                     |                                     |                    | ND                | 0.097                                      |
| MW-5             | 4/8/08       | 0.008                               | 0.079                         | 2.69                                     | 0.93                        | 3.708                                     | 0.043                                   | 0.182                                | 0.358                      | 0.583                                      | ND                                      | 0.84                                 | 0.495                                | ND                | 0.005             | 0.252                |                           | 0.048                         | ND                 |                     |                                     |                    | ND                | 0.076                                      |
| MW-5             | 10/15/08     | 0.011                               | 0.05                          | 0.28                                     | 0.41                        | 0.751                                     | 0.037                                   | 0.15                                 | 0.56                       | 0.747                                      | <0.005                                  | 0.19                                 | 0.34                                 | 0.53              | 0.006             | 0.039                | <0.005                    | 0.05                          | <0.005             | 0.07600001          | <0.005                              | <0.005             | <0.005            | 0.1                                        |
| MW-5             | 6/22/09      | <0.005                              | <0.005                        | <0.005                                   | 0.026                       | 0.026                                     | <0.005                                  | 0.017                                | 0.25                       | 0.267                                      | <0.005                                  | <0.005                               | 0.085                                | 0.48              | <0.005            | <0.005               | <0.005                    | 0.028                         | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.041                                      |
| MW-5             | 10/7/10      | <0.005                              | <0.005                        | <0.005                                   | 0.011                       | 0.011                                     | <0.005                                  | 0.0051                               | 0.24                       | 0.2451                                     | <0.005                                  | <0.005                               | 0.016                                | <0.05             | <0.005            | <0.005               | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.018                                      |
| MW-5             | 2/9/12       | <0.005                              | <0.005                        | <0.005                                   | 0.011                       | 0.011                                     | <0.005                                  | 0.023                                | 0.2                        | 0.223                                      | <0.005                                  | <0.005                               | 0.017                                | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0095                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.024                                      |
| MW-5             | 8/23/2012    | <0.005                              | <0.005                        | <0.005                                   | 0.0044                      | 0.0044                                    | <0.005                                  | 0.025                                | 0.17                       | 0.195                                      | <0.005                                  | <0.005                               | 0.0085                               | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0061                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.014                                      |
| MW-5             | 2/6/2013     | <0.005                              | <0.005                        | <0.005                                   | 0.0064                      | 0.0064                                    | <0.005                                  | 0.029                                | 0.18                       | 0.209                                      | <0.005                                  | <0.005                               | 0.013                                | <0.05             | <0.005            | <0.005               | <0.005                    | 0.0082                        | <0.005             | <0.01               | <0.005                              | <0.005             | <0.005            | 0.024                                      |
| MW-5             | 8/6/2013     | <0.005                              | 0.0052                        | 0.11                                     | 0.14                        | 0.2552                                    | 0.0068                                  | 0.081                                | 0.062                      | 0.405                                      | <0.005                                  | 0.013                                | 0.047                                | <0.05             | <0.005            | 0.006                | <0.005                    | <0.005                        | <0.005             | <0.01               | <0.005                              | <0.005             | 0.018             | <0.005                                     |
| MW-6             | 8/10/05      | 0.004                               | 0.017                         | <0.001                                   | <0.001                      | 0.021                                     | 0.13                                    | 0.022                                | <0.001                     | 0.152                                      | <0.001                                  | 0.076                                | 0.02                                 | <0.01             | <0.001            | <0.001               |                           | 0.0017                        | 0.0012             |                     |                                     |                    | <0.001            | 0.0014                                     |
| MW-6             | 6/27/06      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | 0.118                                   | 0.024                                | <0.005                     | 0.142                                      | <0.005                                  | 0.113                                | 0.023                                | <0.01             | <0.005            | 0.057                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | <0.005                                     |
| MW-6             | 3/6/07       | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | 0.181                                   | 0.043                                | <0.01                      | 0.224                                      | <0.005                                  | 0.174                                | 0.058                                | <0.01             | <0.005            | 0.107                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.005                                      |
| MW-6             | 6/25/07      | <0.005                              | <0.005                        | <0.005                                   | <0.002                      | ND                                        | 0.106                                   | 0.033                                | <0.01                      | 0.139                                      | <0.005                                  | 0.186                                | 0.028                                | <0.01             | <0.005            | 0.078                |                           | <0.005                        | <0.005             |                     |                                     |                    | <0.005            | 0.006                                      |
| MW-6             | 4/9/08       | ND                                  | 0.006                         | ND                                       | ND                          | 0.006                                     | 0.136                                   | 0.065                                | ND                         | 0.201                                      | ND                                      | 0.208                                | 0.075                                | ND                | ND                | 0.136                |                           | ND                            | ND                 |                     |                                     |                    | ND                | 0.01                                       |
| MW-6             | 10/15/08     | <0.005                              | 0.0082                        | <0.005                                   | 0.0022                      | 0.0104                                    | 0.11                                    | 0.04                                 | <0.01                      | 0.15                                       | <0.005                                  | 0.27                                 | 0.035                                | <0.05             | <0.005            | 0.085                | <0.005                    | <0.005                        | <0.005             | 0.045               | <0.005                              | <0.005             | <0.005            | 0.011                                      |
| MW-6             | 6/23/09      | 0.0057                              | 0.018                         | 0.011                                    | 0.014                       | 0.0487                                    | 0.072                                   | 0.047                                | <0.01                      | 0.119                                      | <0.005                                  | 0.12                                 | 0.036                                | <0.05             | <0.005            | 0.067                | <0.005                    | <0.005                        | <0.005             | 0.035               | <0.005                              | <0.005             | <0.005            | 0.011                                      |
| MW-6             | 10/8/10      | <0.005                              | 0.036                         | 0.0055                                   | 0.0056                      | 0.0471                                    | 0.037                                   | 0.015                                | <0.01                      | 0.052                                      | <0.005                                  | 0.076                                | 0.014                                | <0.05             | <0.005            | 0.025                | <0.005                    | <0.005                        | <0.005             | 0.017               | <0.005                              | <0.005             | <0.005            | 0.0052                                     |
| MW-6             | 2/8/2012     | <0.005                              | 0.041                         | 0.006                                    | 0.0028                      | 0.0498                                    | 0.026                                   | 0.019                                | <0.01                      | 0.045                                      | <0.005                                  | 0.11                                 | 0.013                                | <0.05             | <0.005            | 0.024                | <0.005                    | <0.005                        | <0.005             | 0.02                | <0.005                              | <0.005             | <0.005            | 0.0067                                     |
| MW-6             | 2/6/2013     | <0.005                              | 0.048                         | <0.005                                   | <0.002                      | 0.048                                     | 0.022                                   | 0.014                                | <0.01                      | 0.0                                        |                                         |                                      |                                      |                   |                   |                      |                           |                               |                    |                     |                                     |                    |                   |                                            |

## Capitol Adhesive

**Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)**

| Well             | Date Sampled | Tetra chloro ethene (mg/L) | Trichloro ethene (mg/L) | cis-1,2-Dichloro ethene (mg/L) | Vinyl chloride (mg/L) | Total Chlorinated Ethenes (mg/L) | 1,1,1-Trichloroet hane (mg/L) | 1,1-Dichloro ethane (mg/L) | Chloro ethane (mg/L) | Total Chlorinated Ethanes (mg/L) | 1,1,2-Trichloro ethane (mg/L) | 1,1-Dichloro ethene (mg/L) | 1,2-Dichloro ethane (mg/L) | Acetone (mg/L) | Benzene (mg/L) | Chloroform (mg/L) | Cyclo hexane (mg/L) | Dichloro methane (mg/L) | Freon-11 (mg/L) | Freon-113 (mg/L) | Methyl cyclo hexane (mg/L) | o-Xylene (mg/L) | Toluene (mg/L) | trans-1,2-Dichloroet hene (mg/L) |
|------------------|--------------|----------------------------|-------------------------|--------------------------------|-----------------------|----------------------------------|-------------------------------|----------------------------|----------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|----------------|----------------|-------------------|---------------------|-------------------------|-----------------|------------------|----------------------------|-----------------|----------------|----------------------------------|
| Type 1 RRS or DL |              | 0.005                      | 0.005                   | 0.07                           | 0.002                 |                                  | 0.2                           | 4                          | DL                   |                                  | 0.005                         | 0.007                      | 0.005                      | 4              | 0.005          | 0.08              | DL                  | 0.005                   | 2               | 1000             | DL                         | 10              | 1              | 0.1                              |
| MW-8             | 6/28/06      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.005               | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-8             | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-8             | 6/25/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-8             | 9/13/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-8             | 4/8/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-8             | 10/14/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-8             | 6/22/09      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | 0.19           | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-8             | 10/7/10      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-8             | 2/8/2012     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-8             | 2/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-9             | 6/29/2006    | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-9             | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-9             | 6/25/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.01          | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-9             | 6/29/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-9             | 9/13/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-9             | 4/8/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-9             | 10/15/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-9             | 6/22/09      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-9             | 10/7/10      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-9             | 2/8/2012     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-9             | 2/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-10            | 7/8/06       | <0.005                     | 0.025                   | 0.008                          | <0.002                | 0.033                            | 0.004 J                       | <0.005                     | <0.01                | 0.004                            | <0.005                        | <0.005                     | 0.004 J                    | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-10            | 3/6/07       | <0.005                     | 0.031                   | 0.008                          | <0.002                | 0.039                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-10            | 6/26/07      | <0.005                     | 0.058                   | 0.015                          | <0.002                | 0.073                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-10            | 9/14/07      | ND                         | 0.064                   | 0.015                          | ND                    | 0.079                            | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-10            | 4/9/08       | ND                         | 0.039                   | 0.013                          | ND                    | 0.052                            | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-10            | 10/16/08     | <0.005                     | 0.06                    | 0.021                          | 0.0024                | 0.0834                           | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-10            | 6/23/09      | <0.005                     | 0.05                    | 0.013                          | <0.002                | 0.063                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-10            | 10/8/10      | <0.005                     | 0.093                   | 0.016                          | <0.002                | 0.109                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-10            | 2/7/2012     | <0.005                     | 0.049                   | 0.016                          | <0.002                | 0.065                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-10            | 2/6/2013     | <0.005                     | 0.051                   | 0.012                          | <0.002                | 0.063                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11            | 7/8/06       | <0.005                     | 0.005                   | 0.007                          | <0.002                | 0.012                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-11            | 3/7/07       | <0.005                     | 0.006                   | 0.005                          | <0.002                | 0.011                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-11            | 6/26/07      | <0.005                     | <0.005                  | 0.005                          | <0.002                | 0.005                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-11            | 9/14/07      | ND                         | ND                      | 0.005                          | ND                    | 0.005                            | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-11            | 4/9/08       | ND                         | ND                      | 0.006                          | ND                    | 0.006                            | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-11            | 10/16/08     | <0.005                     | 0.0054                  | 0.008300001                    | <0.002                | 0.014                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11 (Dup)      | 10/16/08     | <0.005                     | 0.0056                  | 0.0077                         | <0.002                | 0.013                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11            | 6/23/09      | <0.005                     | 0.006                   | 0.009500001                    | <0.002                | 0.016                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11            | 10/8/10      | <0.005                     | <0.005                  | 0.0062                         | <0.002                | 0.0062                           | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11            | 2/7/2012     | <0.005                     | <0.005                  | 0.0088                         | <0.002                | 0.009                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11            | 2/5/2013     | <0.005                     | <0.005                  | 0.0052                         | <0.002                | 0.0052                           | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-11 Dup)       | 2/5/2013     | <0.005                     | <0.005                  | 0.0089                         | <0.002                | 0.0089                           | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-12            | 7/8/06       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-12            | 3/7/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-12            | 6/26/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-12            | 9/14/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-12            | 4/9/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 |                |                                  |

## Capitol Adhesive

**Table B-1. Analytical Results for Constituents Detected in Groundwater (mg/L)**

| Well             | Date Sampled | Tetra chloro ethene (mg/L) | Trichloro ethene (mg/L) | cis-1,2-Dichloro ethene (mg/L) | Vinyl chloride (mg/L) | Total Chlorinated Ethenes (mg/L) | 1,1,1-Trichloroet hane (mg/L) | 1,1-Dichloro ethane (mg/L) | Chloro ethane (mg/L) | Total Chlorinated Ethanes (mg/L) | 1,1,2-Trichloro ethane (mg/L) | 1,1-Dichloro ethene (mg/L) | 1,2-Dichloro ethane (mg/L) | Acetone (mg/L) | Benzene (mg/L) | Chloroform (mg/L) | Cyclo hexane (mg/L) | Dichloro methane (mg/L) | Freon-11 (mg/L) | Freon-113 (mg/L) | Methyl cyclo hexane (mg/L) | o-Xylene (mg/L) | Toluene (mg/L) | trans-1,2-Dichloroet hene (mg/L) |
|------------------|--------------|----------------------------|-------------------------|--------------------------------|-----------------------|----------------------------------|-------------------------------|----------------------------|----------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|----------------|----------------|-------------------|---------------------|-------------------------|-----------------|------------------|----------------------------|-----------------|----------------|----------------------------------|
| Type 1 RRS or DL |              | 0.005                      | 0.005                   | 0.07                           | 0.002                 |                                  | 0.2                           | 4                          | DL                   |                                  | 0.005                         | 0.007                      | 0.005                      | 4              | 0.005          | 0.08              | DL                  | 0.005                   | 2               | 1000             | DL                         | 10              | 1              | 0.1                              |
| MW-13            | 10/15/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13            | 6/22/09      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13            | 10/12/10     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13 (Dup)      | 10/12/10     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13 (Dup)      | 2/8/12       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13            | 2/8/2012     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-13            | 2/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-14            | 6/29/06      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-14            | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-14            | 6/25/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-14            | 9/13/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-14            | 4/8/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-14            | 10/15/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-14            | 6/22/09      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-14            | 10/12/10     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-14            | 2/8/2012     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-14            | 2/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 6/29/06      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-15            | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | 0.007                         | <0.005                     | <0.01                | 0.007                            | <0.005                        | 0.005                      | <0.005                     | <0.1           | <0.005         | 0.005             |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-15            | 6/25/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-15            | 9/13/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-15            | 4/9/08       | ND                         | 0.005                   | ND                             | ND                    | 0.005                            | 0.006                         | ND                         | ND                   | 0.006                            | ND                            | 0.008                      | ND                         | ND             | ND             | 0.006             |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-15            | 10/15/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | 0.0092                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 6/22/09      | <0.005                     | 0.011                   | 0.015                          | <0.002                | 0.026                            | 0.0084                        | <0.005                     | <0.01                | 0.0084                           | <0.005                        | 0.016                      | <0.005                     | <0.05          | <0.005         | 0.0064            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 10/12/10     | <0.005                     | 0.0089                  | 0.022                          | 0.0059                | 0.0368                           | 0.0089                        | <0.005                     | <0.01                | 0.0089                           | <0.005                        | 0.023                      | <0.005                     | <0.05          | <0.005         | 0.0079            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 2/8/12       | <0.005                     | 0.021                   | 0.037                          | 0.0082                | 0.0662                           | 0.0053                        | 0.0057                     | <0.01                | 0.011                            | <0.005                        | 0.019                      | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 8/23/2012    | <0.005                     | 0.017                   | 0.027                          | 0.0054                | 0.0494                           | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | 0.016                      | <0.005                     | <0.05          | <0.005         | 0.005             | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 2/6/2013     | <0.005                     | 0.02                    | 0.029                          | 0.008                 | 0.057                            | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | 0.022                      | <0.005                     | <0.05          | <0.005         | 0.0057            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-15            | 8/6/2013     | <0.005                     | 0.02                    | 0.029                          | 0.0058                | 0.0548                           | <0.005                        | 0.0057                     | <0.01                | 0.0605                           | <0.005                        | 0.014                      | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 6/29/06      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-16            | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-16            | 6/25/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-16            | 9/13/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-16            | 4/9/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-16            | 10/14/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 6/22/09      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 10/8/10      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 2/8/12       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 8/23/2012    | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 2/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-16            | 8/5/2013     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-17            | 3/6/07       | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-17            | 6/26/07      | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.1           | <0.005         | <0.005            |                     | <0.005                  | <0.005          |                  |                            |                 | <0.005         | <0.005                           |
| MW-17            | 9/14/07      | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-17            | 4/9/08       | ND                         | ND                      | ND                             | ND                    | ND                               | ND                            | ND                         | ND                   | ND                               | ND                            | ND                         | ND                         | ND             | ND             | ND                |                     | ND                      | ND              |                  |                            |                 | ND             | ND                               |
| MW-17            | 10/16/08     | <0.005                     | <0.005                  | <0.005                         | <0.002                | ND                               | <0.005                        | <0.005                     | <0.01                | ND                               | <0.005                        | <0.005                     | <0.005                     | <0.05          | <0.005         | <0.005            | <0.005              | <0.005                  | <0.005          | <0.01            | <0.005                     | <0.005          | <0.005         | <0.005                           |
| MW-17            | 6/23/09      | <0.005                     | <0.005                  | <0.005                         |                       |                                  |                               |                            |                      |                                  |                               |                            |                            |                |                |                   |                     |                         |                 |                  |                            |                 |                |                                  |

ND: Not detected

DL: Detection limit

Note: Detection Limits from September 2007 and April 2008 are not available. If obtained, they will be added in a future report.

Result greater than RRS, or DL if no RRS

## Capitol Adhesives

**Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)**

| Sample ID            | Depth<br>(ft bgs) | Date<br>Sampled | Tetrachloroethene<br>(mg/kg) | Trichloroethene<br>(mg/kg) | cis-1,2-Dichloroethene<br>(mg/kg) | Vinyl chloride<br>(mg/kg) | Total Chlorinated Ethenes<br>(mg/kg) | 1,1,1-Trichloroethane<br>(mg/kg) | 1,1-Dichloroethane<br>(mg/kg) | Chloroethane<br>(mg/kg) | Total Chlorinated Ethanes<br>(mg/kg) | 1,1,2-Trichloroethane<br>(mg/kg) | 1,1-Dichloroethene<br>(mg/kg) | 1,2,4-Trimethylbenzene<br>(mg/kg) | 1,2-Dibromoethane<br>(mg/kg) | 1,2-Dichlorobenzene<br>(mg/kg) | 1,2-Dichloroethane<br>(mg/kg) | 1,2-Dichloropropane<br>(mg/kg) | 1,3,5-Trimethylbenzene<br>(mg/kg) | 1,4-Dioxane<br>(mg/kg) | 2-Butanone (MEK)<br>(mg/kg) | 4-Methyl-2-pentanone<br>(mg/kg) | Acetone<br>(mg/kg) | Benzene<br>(mg/kg) |
|----------------------|-------------------|-----------------|------------------------------|----------------------------|-----------------------------------|---------------------------|--------------------------------------|----------------------------------|-------------------------------|-------------------------|--------------------------------------|----------------------------------|-------------------------------|-----------------------------------|------------------------------|--------------------------------|-------------------------------|--------------------------------|-----------------------------------|------------------------|-----------------------------|---------------------------------|--------------------|--------------------|
| Solid Aquifer Matrix |                   |                 |                              |                            |                                   |                           |                                      |                                  |                               |                         |                                      |                                  |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| GP001                | 6-8               | 8/9/05          | <0.0054                      | <0.0054                    | <0.0054                           |                           | ND                                   | <0.0054                          |                               |                         | ND                                   |                                  | <0.0054                       | <0.0054                           |                              |                                | <0.0054                       | <5.4                           | <0.0054                           |                        |                             |                                 |                    |                    |
| GP002                | 4-6               | 8/9/05          | <0.0049                      | <0.0049                    | <0.0049                           |                           | ND                                   | <0.0049                          |                               |                         | ND                                   |                                  | <0.0049                       | <0.0049                           |                              |                                | <0.0049                       | <4.9                           | <0.0049                           |                        |                             |                                 |                    |                    |
| GP003                | 2-4               | 8/9/05          | <0.0048                      | <0.0048                    | <0.0048                           |                           | ND                                   | <0.0048                          |                               |                         | ND                                   |                                  | <0.0048                       | <0.0048                           |                              |                                | <0.0048                       | <4.8                           | <0.0048                           |                        |                             |                                 |                    |                    |
| GP004                | 4-6               | 8/9/05          | <0.004                       | <0.004                     | <0.004                            |                           | ND                                   | <0.004                           |                               |                         | ND                                   |                                  | <0.004                        | <0.004                            |                              |                                | <0.004                        | <4                             | <0.004                            |                        |                             |                                 |                    |                    |
| GP005                | 4-6               | 8/9/05          | <0.0045                      | <0.0045                    | <0.0045                           |                           | ND                                   | <0.0045                          |                               |                         | ND                                   |                                  | <0.0045                       | <0.0045                           |                              |                                | <0.0045                       | <4.5                           | <0.0045                           |                        |                             |                                 |                    |                    |
| GP006                | 2-4               | 8/9/05          | <0.0046                      | <0.0046                    | <0.0046                           |                           | ND                                   | <0.0046                          |                               |                         | ND                                   |                                  | <0.0046                       | <0.0046                           |                              |                                | <0.0046                       | <4.6                           | <0.0046                           |                        |                             |                                 |                    |                    |
| GP009                | 2-4               | 8/10/05         | <0.0043                      | <0.0043                    | <0.0043                           |                           | ND                                   | <0.0043                          |                               |                         | ND                                   |                                  | <0.0043                       | <0.0043                           |                              |                                | <0.0043                       | <4.3                           | <0.0043                           |                        |                             |                                 |                    |                    |
| GP010                | 4-6               | 8/10/05         | 0.13                         | 0.33                       | <0.067                            |                           | 0.46                                 | 0.15                             |                               |                         | 0.15                                 |                                  | 0.093                         | <0.067                            |                              |                                | <0.067                        | <67                            | <0.067                            |                        |                             |                                 |                    |                    |
| GP011                | 2-4               | 8/10/05         | 0.13                         | 0.63                       | <0.061                            |                           | 0.76                                 | <0.061                           |                               |                         | ND                                   |                                  | 0.099                         | <0.061                            |                              |                                | <0.061                        | <61                            | <0.061                            |                        |                             |                                 |                    |                    |
| GP012                | 4-6               | 8/10/05         | 1.5                          | 1.8                        | 0.56                              |                           | 3.86                                 | 0.41                             |                               |                         | 0.41                                 |                                  | 0.72                          | <0.063                            |                              |                                | 0.15                          | 150                            | <0.063                            |                        |                             |                                 |                    |                    |
| GP013                | 4-6               | 8/10/05         | <0.0052                      | <0.0052                    | <0.0052                           |                           | ND                                   | <0.0052                          |                               |                         | ND                                   |                                  | <0.0052                       | <0.0052                           |                              |                                | <0.0052                       | <5.2                           | <0.0052                           |                        |                             |                                 |                    |                    |
| MIP-1                | 2                 | 10/16/08        | 15                           | 12                         | 2.2                               | 0.025                     | 29.225                               | 0.2                              | 0.18                          | <0.012                  | 0.38                                 | 0.029                            | 0.35                          | NA                                | <0.006                       | <0.006                         | 0.36                          | <0.006                         | NA                                | <8.40E-02              | <0.06                       | <0.012                          | <0.12              | <0.006             |
| MIP-1                | 5                 | 10/16/08        | 0.036                        | 0.02                       | <0.0067                           | <0.013                    | 0.056                                | <0.0067                          | <0.0067                       | <0.013                  | ND                                   | <0.0067                          | <0.0067                       | NA                                | <0.0067                      | <0.0067                        | <0.0067                       | <0.0067                        | NA                                | <0.2                   | <0.067                      | <0.013                          | <0.13              | <0.0067            |
| MIP-1                | 9                 | 10/16/08        | 0.024                        | 0.0052                     | 0.018                             | 0.015                     | 0.0622                               | <0.0029                          | <0.0029                       | <0.0058                 | ND                                   | <0.0029                          | <0.0029                       | NA                                | <0.0029                      | <0.0029                        | <0.0029                       | <0.0029                        | NA                                | <8.80E-02              | <0.029                      | <0.0058                         | <0.058             | <0.0029            |
| MIP-5                | 3                 | 10/16/08        | <0.0022                      | <0.0022                    | <0.0022                           | <0.0045                   | ND                                   | <0.0022                          | <0.0022                       | <0.0045                 | ND                                   | <0.0022                          | <0.0022                       | NA                                | <0.0022                      | <0.0022                        | <0.0022                       | <0.0022                        | NA                                | <0.067                 | <0.022                      | <0.0045                         | <0.045             | <0.0022            |
| MIP-6                | 6                 | 10/16/08        | <0.008                       | <0.008                     | <0.008                            | <0.016                    | ND                                   | <0.008                           | <0.008                        | <0.016                  | ND                                   | <0.008                           | <0.008                        | NA                                | <0.008                       | <0.008                         | <0.008                        | <0.008                         | NA                                | <0.24                  | <0.08                       | <0.016                          | <0.16              | <0.008             |
| MIP-8                | 2                 | 10/16/08        | 0.37                         | 2.4                        | 0.068                             | 0.04                      | 2.878                                | 0.014                            | 0.031                         | <0.0026                 | 0.045                                | 0.0048                           | 0.21                          | NA                                | <0.0013                      | <0.0013                        | 0.14                          | <0.0013                        | NA                                | <0.039                 | <0.013                      | <0.0026                         | 0.54               | <0.0013            |
| MIP-8                | 4                 | 10/16/08        | 0.091                        | 0.2                        | <0.007                            | <0.014                    | 0.291                                | <0.007                           | <0.007                        | <0.014                  | ND                                   | <0.007                           | <0.007                        | NA                                | <0.007                       | <0.007                         | <0.007                        | <0.007                         | NA                                | <0.21                  | <0.07                       | <0.014                          | <0.14              | <0.007             |
| MIP-12               | 12                | 10/16/08        | 0.73                         | 0.38                       | <0.11                             | 0.0056                    | 1.1156                               | 0.13                             | 0.018                         | <0.0038                 | 0.148                                | 0.0022                           | 0.21                          | NA                                | <0.0019                      | <0.0019                        | 0.038                         | <0.0019                        | NA                                | <0.056                 | <0.019                      | <0.0038                         | <0.038             | <0.0019            |
| MIP-12               | 4                 | 10/16/08        | <0.0069                      | <0.0069                    | <0.0069                           | <0.014                    | ND                                   | <0.0069                          | <0.0069                       | <0.014                  | ND                                   | <0.0069                          | <0.0069                       | NA                                | <0.0069                      | <0.0069                        | <0.0069                       | <0.0069                        | NA                                | <0.21                  | <0.069                      | <0.014                          | <0.14              | <0.0069            |
| MIP-12               | 6                 | 10/16/08        | <0.0076                      | <0.0076                    | <0.0076                           | <0.015                    | ND                                   | <0.0076                          | <0.0076                       | <0.015                  | ND                                   | <0.0076                          | <0.0076                       | NA                                | <0.0076                      | <0.0076                        | 0.026                         | <0.0076                        | NA                                | <0.23                  | <0.076                      | <0.015                          | <0.15              | <0.0076            |
| MIP-13               | 1                 | 10/16/08        | 0.0087                       | <0.0038                    | 0.0068                            | 0.54                      | 0.5555                               | <0.0038                          | 0.12                          | 0.42                    | 0.54                                 | <0.0038                          | <0.0038                       | NA                                | <0.0038                      | <0.0038                        | 0.052                         | <0.0038                        | NA                                | 1.4                    | 0.12                        | 0.0098                          | <0.076             | 0.0071             |
| MIP-13               | 3                 | 10/16/08        | 0.0069                       | 0.0093                     | 0.058                             | 0.79                      | 0.8642                               | 0.0034                           | 0.22                          | 0.14                    | 0.3634                               | <0.0027                          | 0.047                         | NA                                | <0.0027                      | <0.0027                        | 0.046                         | <0.0027                        | NA                                | 0.510                  | <0.027                      | <0.0053                         | <0.053             | <0.0027            |
| MIP-13               | 6                 | 10/16/08        | 1.5                          | 2.6                        | 2                                 | 0.66                      | 6.76                                 | 0.42                             | 0.44                          | 0.03                    | 0.89                                 | 0.017                            | 1.8                           | NA                                | <0.0027                      | <0.0027                        | 0.78                          | <0.0027                        | NA                                | 0.64                   | <0.027                      | <0.0054                         | <0.054             | 0.0066             |
| MIP-19               | 1                 | 10/16/08        | <0.0059                      | <0.0059                    | <0.0059                           | <0.012                    | ND                                   | <0.0059                          | <0.0059                       | <0.012                  | ND                                   | <0.0059                          | <0.0059                       | NA                                | <0.0059                      | <0.0059                        | <0.0059                       | <0.0059                        | NA                                | <0.18                  | <0.059                      | <0.012                          | <0.12              | <0.0059            |
| MIP-19               | 3                 | 10/16/08        | <0.0071                      | <0.0071                    | <0.0071                           | <0.014                    | ND                                   | <0.0071                          | <0.0071                       | <0.014                  | ND                                   | <0.0071                          | <0.0071                       | NA                                | <0.0071                      | <0.0071                        | <0.0071                       | <0.0071                        | NA                                | <0.21                  | <0.071                      | <0.014                          | <0.14              | <0.0071            |
| MW-1D                | 8-10              | 7/13/04         | <0.0019                      | <0.0019                    | <0.0019                           | <0.0019                   | ND                                   | <0.0019                          | <0.0019                       | <0.0019                 | ND                                   | <0.0019                          | <0.0019                       | <0.0019                           | <0.00184                     | <0.0019                        | <0.0019                       | <1.9                           | <0.00184                          | NA                     | <0.0461                     | <0.00921                        | <0.0461            | <0.0019            |
| MW-2D                | 8-10              | 7/13/04         | <0.0017                      | <0.0017                    | <0.0017                           | <0.0017                   | ND                                   | <0.0017                          | <0.0017                       | <0.0017                 | ND                                   | <0.0017                          | <0.0017                       | <0.0017                           | <0.0017                      | <0.0017                        | <0.0017                       | <1.7                           | <0.0017                           | NA                     | <0.0428                     | <0.00856                        | <0.0428            | <0.0017            |
| MW-3                 | 8-10              | 7/14/04         | 0.0191                       | 0.0138                     | <0.0018                           | <0.0018                   | 0.0329                               | 0.0312                           | <0.0018                       | <0.0018                 | 0.0312                               | <0.0018                          | 0.0025                        | <0.0018                           | <0.0018                      | <0.0018                        | 0.0067                        | 6.7                            | <0.0018                           | NA                     | <0.0448                     | <0.00895                        | <0.0448            | <0.0018            |
| MW-3D                | 13-15             | 7/14/04         | 2.44                         | 1.31                       | <0.134                            | <0.134                    | 3.75                                 | 0.416                            | <0.134                        | <0.134                  | 0.416                                | <0.134                           | <0.134                        | <0.134                            | <0.134                       | <0.134                         | <134                          | <134                           | <0.134                            | NA                     | <3.36                       | <0.67                           | <3.36              | <0.134             |
| MW-8                 | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-9                 | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-10                | 5-10              | 7/7/06          | <0.005                       | 0.006                      | <0.005                            | <0.01                     | 0.006                                | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-11                | 5-10              | 7/6/06          | <0.005                       | 0.008                      | 0.005                             | <0.01                     | 0.013                                | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-12                | 5-10              | 7/6/06          | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-13                | 13-15             | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-14                | 13-15             | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-15                | 8-10              | 6/28/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | 0.215                             | <0.005                       | <0.005                         | <0.005                        | <5                             | 0.074                             | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| MW-16                | 8-10              | 6/27/06         | <0.005                       | <0.005                     | <0.005                            | <0.01                     | ND                                   | <0.005                           | <0.005                        | <0.01                   | ND                                   | <0.005                           | <0.005                        | <0.005                            | <0.005                       | <0.005                         | <0.005                        | <5                             | <0.005                            | NA                     | <0.1                        | <0.05                           | <0.1               | <0.005             |
| SB-1                 | 1                 | 2/20/13         | 1.3                          | 0.02                       |                                   |                           | 1.32                                 | <0.0033                          |                               |                         | ND                                   | 0.011                            |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-1 (Dup)           | 1                 | 2/20/13         | 5                            | 0.016                      |                                   |                           | 5.016                                | <0.0038                          |                               |                         | ND                                   | 0.0098                           |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-1                 | 2                 | 2/20/13         | 0.053                        | <0.006                     |                                   |                           | 0.053                                | <0.006                           |                               |                         | ND                                   | 0.0073                           |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-1                 | 4                 | 2/20/13         | 0.079                        | 0.012                      |                                   |                           | 0.091                                | <0.0062                          |                               |                         | ND                                   | 0.014                            |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-2                 | 1                 | 2/20/13         | 0.05                         | <0.0029                    |                                   |                           | 0.05                                 | <0.0029                          |                               |                         | ND                                   | <0.0029                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-2                 | 2                 | 2/20/13         | <0.0029                      | 0.011                      |                                   |                           | 0.011                                | <0.0029                          |                               |                         | ND                                   | <0.0029                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-2                 | 4                 | 2/20/13         | <0.0029                      | <0.0029                    |                                   |                           | ND                                   | <0.0029                          |                               |                         | ND                                   | <0.0029                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-3                 | 1                 | 2/20/13         | 0.0042                       | <0.0039                    |                                   |                           | 0.0042                               | <0.0039                          |                               |                         | ND                                   | <0.0039                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-3                 | 2                 | 2/20/13         | 0.0077                       | <0.0031                    |                                   |                           | 0.0077                               | <0.0031                          |                               |                         | ND                                   | <0.0031                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-3                 | 4                 | 2/20/13         | 0.0065                       | <0.004                     |                                   |                           | 0.0065                               | <0.004                           |                               |                         | ND                                   | <0.004                           |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-4                 | 1                 | 2/20/13         | 1.3                          | 0.053                      |                                   |                           | 1.353                                | 0.023                            |                               |                         | 0.023                                | 0.0093                           |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-4                 | 2                 | 2/20/13         | 0.0085                       | <0.0034                    |                                   |                           | 0.0085                               | <0.0034                          |                               |                         | ND                                   | <0.0034                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-4                 | 4                 | 2/20/13         | <0.0036                      | <0.0036                    |                                   |                           | ND                                   | <0.0036                          |                               |                         | ND                                   | <0.0036                          |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |
| SB-5                 | 1                 | 2/20/13         | 0.84                         | 0.63                       |                                   |                           | 1.47                                 | 0.0046                           |                               |                         | 0.                                   |                                  |                               |                                   |                              |                                |                               |                                |                                   |                        |                             |                                 |                    |                    |

Capitol Adhesives

Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)

| Sample ID            | Depth<br>(ft bgs) | Date<br>Sampled | Carbon<br>disulfide<br>(mg/kg) | Carbon<br>tetra<br>chloride<br>(mg/kg) | Chloro<br>benzene<br>(mg/kg) | Chloroform<br>(mg/kg) | cis/trans1,2-<br>Dichloro<br>ethene<br>(mg/kg) | Cyclo<br>hexane<br>(mg/kg) | Dichloro<br>methane<br>(Methylene<br>chloride)<br>(mg/kg) | Ethyl<br>benzene<br>(mg/kg) | Freon-11<br>(Trichlorof<br>luorometha<br>ne<br>(mg/kg) | Freon-113<br>(mg/kg) | Isopropyl<br>benzene<br>(mg/kg) | m&p-<br>Xylene<br>(mg/kg) | Methyl<br>acetate<br>(mg/kg) | Methyl<br>cyclo<br>hexane<br>(mg/kg) | Naphthalene<br>(mg/kg) | n-Propyl<br>benzene<br>(mg/kg) | o-Xylene<br>(mg/kg) | sec-Butyl<br>benzene<br>(mg/kg) | Toluene<br>(mg/kg) | trans-1,2-<br>Dichloro<br>ethene<br>(mg/kg) |
|----------------------|-------------------|-----------------|--------------------------------|----------------------------------------|------------------------------|-----------------------|------------------------------------------------|----------------------------|-----------------------------------------------------------|-----------------------------|--------------------------------------------------------|----------------------|---------------------------------|---------------------------|------------------------------|--------------------------------------|------------------------|--------------------------------|---------------------|---------------------------------|--------------------|---------------------------------------------|
| Solid Aquifer Matrix |                   |                 |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| GP001                | 6-8               | 8/9/05          |                                |                                        |                              | <0.0054               | <0.0054                                        |                            | <0.0054                                                   | <0.0054                     |                                                        |                      | <0.0054                         |                           |                              |                                      | <0.0054                | <0.0054                        |                     | <0.0054                         | <0.0054            |                                             |
| GP002                | 4-6               | 8/9/05          |                                |                                        |                              | <0.0049               | <0.0049                                        |                            | <0.0049                                                   | <0.0049                     |                                                        |                      | <0.0049                         |                           |                              |                                      | <0.0049                | <0.0049                        |                     | <0.0049                         | <0.0049            |                                             |
| GP003                | 2-4               | 8/9/05          |                                |                                        |                              | <0.0048               | <0.0048                                        |                            | <0.0048                                                   | <0.0048                     |                                                        |                      | <0.0048                         |                           |                              |                                      | <0.0048                | <0.0048                        |                     | <0.0048                         | <0.0048            |                                             |
| GP004                | 4-6               | 8/9/05          |                                |                                        |                              | <0.004                | <0.004                                         |                            | <0.004                                                    | <0.004                      |                                                        |                      | <0.004                          |                           |                              |                                      | <0.004                 | <0.004                         |                     | <0.004                          | <0.004             |                                             |
| GP005                | 4-6               | 8/9/05          |                                |                                        |                              | <0.0045               | <0.0045                                        |                            | <0.0045                                                   | <0.0045                     |                                                        |                      | <0.0045                         |                           |                              |                                      | <0.0045                | <0.0045                        |                     | <0.0045                         | <0.0045            |                                             |
| GP006                | 2-4               | 8/9/05          |                                |                                        |                              | <0.0046               | <0.0046                                        |                            | <0.0046                                                   | <0.0046                     |                                                        |                      | <0.0046                         |                           |                              |                                      | <0.0046                | <0.0046                        |                     | <0.0046                         | <0.0046            |                                             |
| GP009                | 2-4               | 8/10/05         |                                |                                        |                              | <0.0043               | <0.0043                                        |                            | <0.0043                                                   | <0.0043                     |                                                        |                      | <0.0043                         |                           |                              |                                      | <0.0043                | <0.0043                        |                     | <0.0043                         | <0.0043            |                                             |
| GP010                | 4-6               | 8/10/05         |                                |                                        |                              | <0.067                | 0.093                                          |                            | <0.067                                                    | <0.067                      |                                                        |                      | <0.067                          |                           |                              |                                      | <0.067                 | <0.067                         |                     | <0.067                          | <0.067             |                                             |
| GP011                | 2-4               | 8/10/05         |                                |                                        |                              | 0.064                 | 0.099                                          |                            | <0.061                                                    | <0.061                      |                                                        |                      | <0.061                          |                           |                              |                                      | <0.061                 | <0.061                         |                     | <0.061                          | <0.061             |                                             |
| GP012                | 4-6               | 8/10/05         |                                |                                        |                              | 0.29                  | 0.72                                           |                            | 0.29                                                      | <0.063                      |                                                        |                      | <0.063                          |                           |                              |                                      | <0.063                 | <0.063                         |                     | <0.063                          | <0.063             |                                             |
| GP013                | 4-6               | 8/10/05         |                                |                                        |                              | <0.0052               | <0.0052                                        |                            | <0.0052                                                   | <0.0052                     |                                                        |                      | <0.0052                         |                           |                              |                                      | <0.0052                | <0.0052                        |                     | <0.0052                         | <0.0052            |                                             |
| MIP-1                | 2                 | 10/16/08        | <0.012                         | <0.006                                 | <0.006                       | 0.73                  | NA                                             | <0.006                     | <0.006                                                    | <0.006                      | <0.006                                                 | <0.012               | <0.006                          | <0.012                    | <0.006                       | 0.0094                               | NA                     | NA                             | <0.006              | NA                              | 0.027              | 0.055                                       |
| MIP-1                | 5                 | 10/16/08        | <0.013                         | <0.0067                                | <0.0067                      | <0.0067               | NA                                             | <0.0067                    | <0.0067                                                   | <0.0067                     | <0.0067                                                | <0.013               | <0.0067                         | <0.013                    | <0.0067                      | <0.0067                              | NA                     | NA                             | <0.0067             | NA                              | <0.0067            | <0.0067                                     |
| MIP-1                | 9                 | 10/16/08        | <0.0058                        | <0.0029                                | <0.0029                      | <0.0029               | NA                                             | <0.0029                    | <0.0029                                                   | <0.0029                     | <0.0029                                                | <0.0058              | <0.0029                         | <0.0058                   | <0.0029                      | <0.0029                              | NA                     | NA                             | <0.0029             | NA                              | <0.0029            | <0.0029                                     |
| MIP-5                | 3                 | 10/16/08        | <0.0045                        | <0.0022                                | <0.0022                      | <0.0022               | NA                                             | <0.0022                    | <0.0022                                                   | <0.0022                     | <0.0022                                                | <0.0045              | <0.0022                         | <0.0045                   | <0.0022                      | <0.0022                              | NA                     | NA                             | <0.0022             | NA                              | <0.0022            | <0.0022                                     |
| MIP-6                | 6                 | 10/16/08        | <0.016                         | <0.008                                 | <0.008                       | <0.008                | NA                                             | <0.008                     | <0.008                                                    | <0.008                      | <0.008                                                 | <0.016               | <0.008                          | <0.016                    | <0.008                       | <0.008                               | NA                     | NA                             | <0.008              | NA                              | <0.008             | <0.008                                      |
| MIP-8                | 2                 | 10/16/08        | <0.0026                        | <0.0013                                | <0.0013                      | 0.069                 | NA                                             | <0.0013                    | 0.11                                                      | <0.0013                     | <0.0013                                                | <0.0026              | <0.0013                         | <0.0026                   | <0.0013                      | 0.015                                | NA                     | NA                             | <0.0013             | NA                              | 0.006              | 0.014                                       |
| MIP-8                | 4                 | 10/16/08        | <0.014                         | <0.007                                 | <0.007                       | <0.007                | NA                                             | <0.007                     | <0.007                                                    | <0.007                      | <0.007                                                 | <0.014               | <0.007                          | <0.014                    | <0.007                       | <0.007                               | NA                     | NA                             | <0.007              | NA                              | 0.0076             | <0.007                                      |
| MIP-12               | 12                | 10/16/08        | <0.0038                        | <0.0019                                | <0.0019                      | 0.12                  | NA                                             | <0.0019                    | <0.0019                                                   | <0.0019                     | 0.0027                                                 | <0.0038              | <0.0019                         | <0.0038                   | <0.0019                      | <0.0019                              | NA                     | NA                             | <0.0019             | NA                              | <0.0019            | 0.0077                                      |
| MIP-12               | 4                 | 10/16/08        | <0.014                         | <0.0069                                | <0.0069                      | <0.0069               | NA                                             | <0.0069                    | <0.0069                                                   | <0.0069                     | <0.0069                                                | <0.014               | <0.0069                         | <0.014                    | <0.0069                      | <0.0069                              | NA                     | NA                             | <0.0069             | NA                              | <0.0069            | <0.0069                                     |
| MIP-12               | 6                 | 10/16/08        | <0.015                         | <0.0076                                | <0.0076                      | <0.0076               | NA                                             | <0.0076                    | <0.0076                                                   | <0.0076                     | <0.0076                                                | <0.015               | <0.0076                         | <0.015                    | <0.0076                      | <0.0076                              | NA                     | NA                             | <0.0076             | NA                              | <0.0076            | <0.0076                                     |
| MIP-13               | 1                 | 10/16/08        | <0.0076                        | <0.0038                                | <0.0038                      | <0.0038               | NA                                             | 0.014                      | 0.12                                                      | <0.0038                     | <0.0038                                                | 0.073                | <0.0038                         | <0.0076                   | <0.0038                      | 0.18                                 | NA                     | NA                             | <0.0038             | NA                              | 0.096              | 0.02                                        |
| MIP-13               | 3                 | 10/16/08        | <0.0053                        | <0.0027                                | <0.0027                      | 0.029                 | NA                                             | <0.0027                    | 0.067                                                     | <0.0027                     | <0.0027                                                | <0.0053              | <0.0027                         | <0.0053                   | <0.0027                      | 0.031                                | NA                     | NA                             | <0.0027             | NA                              | 0.02               | 0.011                                       |
| MIP-13               | 6                 | 10/16/08        | <0.0054                        | <0.0027                                | <0.0027                      | 1.4                   | NA                                             | <0.0027                    | 1.9                                                       | <0.0027                     | 0.0067                                                 | <0.0054              | <0.0027                         | <0.0054                   | <0.0027                      | 0.013                                | NA                     | NA                             | <0.0027             | NA                              | 0.017              | 0.058                                       |
| MIP-19               | 1                 | 10/16/08        | <0.012                         | <0.0059                                | <0.0059                      | <0.0059               | NA                                             | <0.0059                    | <0.0059                                                   | <0.0059                     | <0.0059                                                | <0.012               | <0.0059                         | <0.012                    | <0.0059                      | <0.0059                              | NA                     | NA                             | <0.0059             | NA                              | <0.0059            | <0.0059                                     |
| MIP-19               | 3                 | 10/16/08        | <0.014                         | <0.0071                                | <0.0071                      | <0.0071               | NA                                             | <0.0071                    | <0.0071                                                   | <0.0071                     | <0.0071                                                | <0.014               | <0.0071                         | <0.014                    | <0.0071                      | <0.0071                              | NA                     | NA                             | <0.0071             | NA                              | <0.0071            | <0.0071                                     |
| MW-1D                | 8-10              | 7/13/04         | <0.00184                       | <0.0019                                | <0.0019                      | <0.0019               | <0.0019                                        | NA                         | <0.0046                                                   | <0.0019                     | <0.0019                                                | NA                   | <0.00184                        | NA                        | NA                           | NA                                   | <0.00461               | <0.00184                       | NA                  | <0.00184                        | <0.0019            | <0.0019                                     |
| MW-2D                | 8-10              | 7/13/04         | <0.0171                        | <0.0017                                | <0.0017                      | <0.0017               | <0.0017                                        | NA                         | <0.0043                                                   | <0.0017                     | <0.0017                                                | NA                   | <0.00171                        | NA                        | NA                           | NA                                   | <0.00428               | <0.00171                       | NA                  | <0.00171                        | 0.0026             | <0.0017                                     |
| MW-3                 | 8-10              | 7/14/04         | <0.0018                        | <0.0018                                | <0.0018                      | 0.0078                | 0.0025                                         | NA                         | <0.0045                                                   | <0.0018                     | <0.0018                                                | NA                   | <0.0018                         | NA                        | NA                           | NA                                   | <0.0048                | <0.0018                        | NA                  | <0.0018                         | <0.0018            | <0.0018                                     |
| MW-3D                | 13-15             | 7/14/04         | <0.134                         | <0.134                                 | <0.134                       | <0.134                | <0.134                                         | NA                         | <0.336                                                    | <0.134                      | <0.134                                                 | NA                   | <0.134                          | NA                        | NA                           | NA                                   | <0.366                 | <0.134                         | NA                  | <0.134                          | <0.134             | <0.134                                      |
| MW-8                 | 8-10              | 6/27/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-9                 | 8-10              | 6/27/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-10                | 5-10              | 7/7/06          | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-11                | 5-10              | 7/6/06          | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-12                | 5-10              | 7/6/06          | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-13                | 13-15             | 6/27/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-14                | 13-15             | 6/27/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| MW-15                | 8-10              | 6/28/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | 0.022                       | <0.005                                                 | NA                   | 0.005                           | 0.085                     | NA                           | NA                                   | 0.14                   | 0.026                          | 0.055               | 0.005                           | 0.027              | <0.005                                      |
| MW-16                | 8-10              | 6/27/06         | <0.005                         | <0.005                                 | <0.005                       | <0.005                | <0.005                                         | NA                         | <0.005                                                    | <0.005                      | <0.005                                                 | NA                   | <0.005                          | <0.01                     | NA                           | NA                                   | <0.005                 | <0.005                         | <0.005              | <0.005                          | <0.005             | <0.005                                      |
| SB-1                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-1 (Dup)           | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-1                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-1                 | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-2                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-2                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-2                 | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-3                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-3                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-3                 | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-4                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-4                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-4                 | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-5                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-5                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-5                 | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-6                 | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-6                 | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |



| Capitol Adhesives                                                                    |                |              |                           |                         |                                |                        |                                   |                               |                            |                      |                                   |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
|--------------------------------------------------------------------------------------|----------------|--------------|---------------------------|-------------------------|--------------------------------|------------------------|-----------------------------------|-------------------------------|----------------------------|----------------------|-----------------------------------|-------------------------------|----------------------------|--------------------------------|---------------------------|-----------------------------|----------------------------|-----------------------------|--------------------------------|---------------------|--------------------------|------------------------------|-----------------|-----------------|--|
| Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg) |                |              |                           |                         |                                |                        |                                   |                               |                            |                      |                                   |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| Sample ID                                                                            | Depth (ft bgs) | Date Sampled | Tetrachloroethene (mg/kg) | Trichloroethene (mg/kg) | cis-1,2-Dichloroethene (mg/kg) | Vinyl chloride (mg/kg) | Total Chlorinated Ethenes (mg/kg) | 1,1,1-Trichloroethane (mg/kg) | 1,1-Dichloroethane (mg/kg) | Chloroethane (mg/kg) | Total Chlorinated Ethanes (mg/kg) | 1,1,2-Trichloroethane (mg/kg) | 1,1-Dichloroethene (mg/kg) | 1,2,4-Trimethylbenzene (mg/kg) | 1,2-Dibromoethane (mg/kg) | 1,2-Dichlorobenzene (mg/kg) | 1,2-Dichloroethane (mg/kg) | 1,2-Dichloropropane (mg/kg) | 1,3,5-Trimethylbenzene (mg/kg) | 1,4-Dioxane (mg/kg) | 2-Butanone (MEK) (mg/kg) | 4-Methyl-2-pentanone (mg/kg) | Acetone (mg/kg) | Benzene (mg/kg) |  |
| SB-6                                                                                 | 4              | 2/20/13      | <0.004                    | <0.004                  |                                |                        | ND                                | <0.004                        |                            |                      | ND                                | <0.004                        |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-7                                                                                 | 1              | 2/20/13      | 0.009                     | <0.0037                 |                                |                        | 0.009                             | <0.0037                       |                            |                      | ND                                | <0.0037                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-7                                                                                 | 2              | 2/20/13      | <0.0065                   | <0.0065                 |                                |                        | ND                                | <0.0065                       |                            |                      | ND                                | <0.0065                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-7                                                                                 | 4              | 2/20/13      | <0.0036                   | <0.0036                 |                                |                        | ND                                | <0.0036                       |                            |                      | ND                                | <0.0036                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-8                                                                                 | 1              | 2/20/13      | 0.021                     | 0.071                   |                                |                        | 0.092                             | <0.0025                       |                            |                      | ND                                | <0.0025                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-8                                                                                 | 2              | 2/20/13      | 0.023                     | 0.18                    |                                |                        | 0.203                             | <0.0028                       |                            |                      | ND                                | <0.0028                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-8                                                                                 | 4              | 2/20/13      | <0.18                     | 0.51                    |                                |                        | 0.51                              | <0.18                         |                            |                      | ND                                | <0.18                         |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-9                                                                                 | 1              | 2/20/13      | 0.0051                    | 0.016                   |                                |                        | 0.0211                            | <0.0036                       |                            |                      | ND                                | <0.0036                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-9                                                                                 | 2              | 2/20/13      | 0.017                     | 0.065                   |                                |                        | 0.082                             | <0.0048                       |                            |                      | ND                                | <0.0048                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SB-9                                                                                 | 4              | 2/20/13      | 0.0074                    | 0.03                    |                                |                        | 0.0374                            | <0.0043                       |                            |                      | ND                                | <0.0043                       |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SO-2                                                                                 | 1              | 3/10/09      | <0.0029                   | <0.0029                 | 0.003                          | 0.33                   | 0.333                             | <0.0029                       | 0.42                       | 0.023                | 0.443                             | <0.0029                       | <0.0029                    | NA                             | <0.0029                   | <0.0029                     | 0.0069                     | <0.0029                     | NA                             | NA                  | <0.029                   | <0.0059                      | <0.059          | <0.0029         |  |
| SO-2                                                                                 | 3              | 3/10/09      | 0.098                     | 0.11                    | 1.1                            | 0.57                   | 1.878                             | 0.0064                        | 0.78                       | <0.0059              | 0.7864                            | <0.0029                       | 0.23                       | NA                             | <0.0029                   | <0.0029                     | 0.18                       | <0.0029                     | NA                             | NA                  | <0.029                   | <0.0059                      | <0.059          | <0.0029         |  |
| SO-3                                                                                 | 1              | 3/10/09      | 2700                      | 62                      | 7.6                            | <5.7                   | 2769.6                            | 5.3                           | <2.8                       | <5.7                 | 5.3                               | <2.8                          | <2.8                       | NA                             | <2.8                      | <2.8                        | <2.8                       | <2.8                        | NA                             | NA                  | <28                      | <5.7                         | <57             | <2.8            |  |
| SO-3                                                                                 | 3              | 3/10/09      | 23                        | 4.9                     | 12                             | <4.8                   | 39.9                              | <2.4                          | <2.4                       | <4.8                 | ND                                | <2.4                          | <2.4                       | NA                             | <2.4                      | <2.4                        | <2.4                       | <2.4                        | NA                             | NA                  | <24                      | <4.8                         | <48             | <2.4            |  |
| SO-4                                                                                 | 1              | 3/10/09      | 0.74                      | 1.2                     | 0.48                           | <0.0063                | 2.42                              | <0.0032                       | 0.035                      | <0.0063              | 0.035                             | 0.0033                        | 0.44                       | NA                             | <0.0032                   | <0.0032                     | 0.042                      | <0.0032                     | NA                             | NA                  | <0.032                   | <0.0063                      | <0.063          | <0.0032         |  |
| SO-4                                                                                 | 3              | 3/10/09      | 0.93                      | 1.6                     | 0.7                            | <0.23                  | 3.23                              | <0.11                         | <0.11                      | <0.23                | ND                                | <0.11                         | 0.63                       | NA                             | <0.11                     | <0.11                       | <0.11                      | <0.11                       | NA                             | NA                  | <1.1                     | <0.23                        | <2.3            | <0.11           |  |
| SO-5                                                                                 | 5              | 3/10/09      | 0.39                      | 0.35                    | 0.035                          | <0.006                 | 0.775                             | 0.07                          | 0.02                       | <0.006               | 0.09                              | <0.003                        | 0.21                       | NA                             | <0.003                    | <0.003                      | 0.053                      | <0.003                      | NA                             | NA                  | <0.03                    | <0.006                       | <0.06           | <0.003          |  |
| SO-5                                                                                 | 9              | 3/10/09      | <0.0062                   | <0.0062                 | <0.0062                        | <0.012                 | ND                                | <0.0062                       | <0.0062                    | <0.012               | ND                                | <0.0062                       | <0.0062                    | NA                             | <0.0062                   | <0.0062                     | <0.0062                    | <0.0062                     | NA                             | NA                  | <0.062                   | <0.012                       | <0.12           | <0.0062         |  |
| SO-6                                                                                 | 5              | 3/10/09      | 0.066                     | 0.089                   | 0.48                           | 0.16                   | 0.795                             | 0.01                          | 0.087                      | <0.0052              | 0.097                             | <0.0026                       | 0.19                       | NA                             | <0.0026                   | <0.0026                     | 0.077                      | <0.0026                     | NA                             | NA                  | <0.026                   | <0.0052                      | <0.052          | <0.0026         |  |
| SO-7                                                                                 | 3              | 3/10/09      | 1.9                       | 2.4                     | 0.015                          | <0.01                  | 4.315                             | 0.072                         | 0.18                       | <0.01                | 0.252                             | 0.0072                        | 0.89                       | NA                             | <0.0052                   | <0.0052                     | 0.13                       | <0.0052                     | NA                             | NA                  | <0.052                   | <0.01                        | <0.1            | <0.0052         |  |
| SO-10                                                                                | 1              | 10/12/10     | 43                        | 16                      | 7.8                            | <0.241                 | 66.8                              | 7.2                           | 4.2                        | <0.241               | 0.252                             | <0.121                        | 0.63                       | NA                             | <0.121                    | <0.121                      | 3.4                        | <0.121                      | NA                             | <1.21               | <1.21                    | <0.241                       | <2.41           | <0.121          |  |
| SS-AST-1                                                                             | 1              | 1/12/09      | 7.09                      | 0.159                   | 0.0768                         | 0.0207                 | 7.3465                            | 0.0805                        | 0.0663                     | <0.00632             | 0.1468                            | <0.00316                      | 0.107                      | NA                             | <0.00316                  | <0.00316                    | 0.0407                     | <0.00316                    | NA                             | NA                  | <0.0316                  | <0.00632                     | <0.0632         | <0.00316        |  |
| SS-AST-2                                                                             | 1              | 1/12/09      | 12.2                      | 7.75                    | 5.95                           | 0.0331                 | 25.9331                           | 1.11                          | 3.45                       | <0.00532             | 4.56                              | 0.197                         | 0.59                       | NA                             | <0.00266                  | 0.00713                     | 1.69                       | <0.00266                    | NA                             | NA                  | <0.0266                  | 0.0476                       | 0.739           | 0.0147          |  |
| SS-AST-3                                                                             | 1              | 7/23/12      | 0.11                      | 0.058                   | 3.6                            | 0.042                  | 3.81                              | <0.003                        | 0.05                       | <0.0061              | 0.05                              |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-3                                                                             | 2              | 7/23/12      | 0.35                      | 0.18                    | 3.3                            | 0.081                  | 3.911                             | <0.0032                       | 0.075                      | <0.0064              | 0.075                             |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-4                                                                             | 1              | 7/23/12      | 0.0047                    | <0.0028                 | 0.0031                         | <0.0056                | 0.0078                            | <0.0028                       | <0.0028                    | <0.0056              | ND                                |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-4                                                                             | 2              | 7/23/12      | 0.0042                    | <0.0033                 | <0.0033                        | <0.0066                | 0.0042                            | <0.0033                       | <0.0033                    | <0.0066              | ND                                |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-5                                                                             | 1              | 7/23/12      | 0.0039                    | <0.0027                 | <0.0027                        | <0.0055                | 0.0039                            | <0.0027                       | <0.0027                    | <0.0055              | ND                                |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-5                                                                             | 2              | 7/23/12      | 0.011                     | <0.0032                 | 0.0083                         | <0.0064                | 0.0193                            | <0.0032                       | <0.0032                    | <0.0064              | ND                                |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-6                                                                             | 1              | 7/23/12      | 0.039                     | 0.0088                  | 0.011                          | <0.0057                | 0.0588                            | 0.0035                        | <0.0028                    | <0.0057              | 0.0035                            |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-6                                                                             | 2              | 7/23/12      | 0.047                     | 0.011                   | 0.0077                         | <0.0066                | 0.0657                            | <0.0033                       | <0.0033                    | <0.0066              | ND                                |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-7                                                                             | 1              | 7/23/12      | 0.013                     | 0.0096                  | 1.9                            | 0.24                   | 2.1626                            | <0.003                        | 0.62                       | 0.07                 | 0.69                              |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-7                                                                             | 2              | 7/23/12      | 0.014                     | 0.0086                  | 2                              | 0.31                   | 2.3326                            | <0.0031                       | 1.2                        | 0.037                | 1.237                             |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-8                                                                             | 1              | 7/23/12      | 64                        | 58                      | 11                             | <3.4                   | 133                               | 66                            | 6.8                        | <3.4                 | 72.8                              |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |
| SS-AST-8                                                                             | 2              |              |                           |                         |                                |                        |                                   |                               |                            |                      |                                   |                               |                            |                                |                           |                             |                            |                             |                                |                     |                          |                              |                 |                 |  |

Capitol Adhesives

Table B-2. Analytical Results for Constituents Detected in Subsurface Solids (mg/kg)

| Sample ID        | Depth<br>(ft bgs) | Date<br>Sampled | Carbon<br>disulfide<br>(mg/kg) | Carbon<br>tetra<br>chloride<br>(mg/kg) | Chloro<br>benzene<br>(mg/kg) | Chloroform<br>(mg/kg) | cis/trans1,2-<br>Dichloro<br>ethene<br>(mg/kg) | Cyclo<br>hexane<br>(mg/kg) | Dichloro<br>methane<br>(Methylene<br>chloride)<br>(mg/kg) | Ethyl<br>benzene<br>(mg/kg) | Freon-11<br>(Trichlorof<br>luorometha<br>ne<br>(mg/kg) | Freon-113<br>(mg/kg) | Isopropyl<br>benzene<br>(mg/kg) | m&p-<br>Xylene<br>(mg/kg) | Methyl<br>acetate<br>(mg/kg) | Methyl<br>cyclo<br>hexane<br>(mg/kg) | Naphthalene<br>(mg/kg) | n-Propyl<br>benzene<br>(mg/kg) | o-Xylene<br>(mg/kg) | sec-Butyl<br>benzene<br>(mg/kg) | Toluene<br>(mg/kg) | trans-1,2-<br>Dichloro<br>ethene<br>(mg/kg) |
|------------------|-------------------|-----------------|--------------------------------|----------------------------------------|------------------------------|-----------------------|------------------------------------------------|----------------------------|-----------------------------------------------------------|-----------------------------|--------------------------------------------------------|----------------------|---------------------------------|---------------------------|------------------------------|--------------------------------------|------------------------|--------------------------------|---------------------|---------------------------------|--------------------|---------------------------------------------|
| SB-6             | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-7             | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-7             | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-7             | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-8             | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-8             | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-8             | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-9             | 1                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-9             | 2                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SB-9             | 4                 | 2/20/13         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SO-2             | 1                 | 3/10/09         | <0.0059                        | <0.0029                                | <0.0029                      | <0.0029               | NA                                             | 0.0036                     | <0.0029                                                   | <0.0029                     | <0.0029                                                | <0.0059              | <0.0029                         | <0.0059                   | <0.0029                      | <0.0029                              | NA                     | NA                             | <0.0029             | NA                              | 0.051              | 0.0047                                      |
| SO-2             | 3                 | 3/10/09         | <0.0059                        | <0.0029                                | <0.0029                      | 0.04                  | NA                                             | 0.14                       | <0.0029                                                   | <0.0029                     | <0.0029                                                | <0.0059              | <0.0029                         | <0.0059                   | <0.0029                      | 0.087                                | NA                     | NA                             | <0.0029             | NA                              | 0.05               | 0.026                                       |
| SO-3             | 1                 | 3/10/09         | <5.7                           | <2.8                                   | <2.8                         | <2.8                  | NA                                             | 8                          | <2.8                                                      | <2.8                        | <2.8                                                   | <5.7                 | <2.8                            | <5.7                      | <2.8                         | 130                                  | NA                     | NA                             | <2.8                | NA                              | 3.3                | <2.8                                        |
| SO-3             | 3                 | 3/10/09         | <4.8                           | <2.4                                   | <2.4                         | 2.5                   | NA                                             | <2.4                       | 4.5                                                       | <2.4                        | <2.4                                                   | <4.8                 | <2.4                            | <4.8                      | <2.4                         | <2.4                                 | NA                     | NA                             | <2.4                | NA                              | <2.4               | <2.4                                        |
| SO-4             | 1                 | 3/10/09         | <0.0063                        | <0.0032                                | <0.0032                      | 0.06                  | NA                                             | <0.0032                    | <0.0032                                                   | <0.0032                     | <0.0032                                                | <0.0063              | <0.0032                         | <0.0063                   | <0.0032                      | 0.032                                | NA                     | NA                             | <0.0032             | NA                              | <0.0032            | 0.0055                                      |
| SO-4             | 3                 | 3/10/09         | <0.23                          | <0.11                                  | <0.11                        | 0.13                  | NA                                             | <0.11                      | <0.11                                                     | <0.11                       | <0.11                                                  | <0.23                | <0.11                           | <0.23                     | <0.11                        | <0.11                                | NA                     | NA                             | <0.11               | NA                              | <0.11              | <0.11                                       |
| SO-5             | 5                 | 3/10/09         | <0.006                         | 0.004                                  | <0.003                       | 0.12                  | NA                                             | <0.003                     | <0.003                                                    | <0.003                      | <0.003                                                 | <0.006               | <0.003                          | <0.006                    | <0.003                       | <0.003                               | NA                     | NA                             | <0.003              | NA                              | <0.003             | 0.015                                       |
| SO-5             | 9                 | 3/10/09         | <0.012                         | <0.0062                                | <0.0062                      | <0.0062               | NA                                             | <0.0062                    | <0.0062                                                   | <0.0062                     | <0.0062                                                | <0.012               | <0.0062                         | <0.012                    | <0.0062                      | <0.0062                              | NA                     | NA                             | <0.0062             | NA                              | <0.0062            | <0.0062                                     |
| SO-6             | 5                 | 3/10/09         | <0.0052                        | <0.0026                                | <0.0026                      | 0.084                 | NA                                             | <0.0026                    | <0.0026                                                   | <0.0026                     | <0.0026                                                | <0.0052              | <0.0026                         | <0.0052                   | <0.0026                      | <0.0026                              | NA                     | NA                             | <0.0026             | NA                              | <0.0026            | 0.017                                       |
| SO-7             | 3                 | 3/10/09         | <0.01                          | <0.0052                                | <0.0052                      | 0.17                  | NA                                             | <0.0052                    | 0.049                                                     | <0.0052                     | <0.0052                                                | <0.01                | <0.0052                         | <0.01                     | <0.0052                      | <0.0052                              | NA                     | NA                             | <0.0052             | NA                              | <0.0052            | 0.025                                       |
| SO-10            | 1                 | 10/12/10        | <0.241                         | <0.121                                 | <0.121                       | 3.1                   | NA                                             | <0.121                     | 5.9                                                       | <0.121                      | <0.121                                                 | <0.241               | <0.121                          | 0.34                      | 0.13                         | 0.26                                 | NA                     | NA                             | 0.16                | NA                              | 1.1                | 0.17                                        |
| SS-AST-1         | 1                 | 1/12/09         | <0.00632                       | <0.00316                               | <0.00316                     | 0.0397                | NA                                             | 0.0178                     | <0.00316                                                  | <0.00316                    | <0.00316                                               | 0.155                | <0.00316                        | 0.0156                    | <0.00316                     | 0.0494                               | NA                     | NA                             | <0.00316            | NA                              | 0.0105             | 0.00856                                     |
| SS-AST-2         | 1                 | 1/12/09         | 0.0121                         | <0.00266                               | 0.00319                      | 1.31                  | NA                                             | 0.00707                    | 3.8                                                       | 0.012                       | <0.00266                                               | <0.00532             | <0.00266                        | 0.0534                    | <0.00266                     | 0.0123                               | NA                     | NA                             | 0.021               | NA                              | 2.17               | 0.187                                       |
| SS-AST-3         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-3         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-4         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-4         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-5         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-5         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-6         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-6         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-7         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-7         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-8         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-8         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-9         | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-9         | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-10        | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-10        | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-10 (Dup)  | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-11        | 1                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-AST-11        | 2                 | 7/23/12         |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| SS-BLDG-1        | 1                 | 1/12/09         | <0.0048                        | <0.0024                                | <0.0024                      | <0.0024               | NA                                             | <0.0024                    | <0.0024                                                   | <0.0024                     | <0.0024                                                | 0.012                | <0.0024                         | <0.0048                   | <0.0024                      | <0.0024                              | NA                     | NA                             | <0.0024             | NA                              | <0.0024            | <0.0024                                     |
| SS-BLDG-1        | 5                 | 1/12/09         | <0.00568                       | <0.00284                               | <0.00284                     | <0.00284              | NA                                             | <0.00284                   | <0.00284                                                  | <0.00284                    | <0.00284                                               | 0.0615               | <0.00284                        | <0.00568                  | <0.00284                     | 0.00426                              | NA                     | NA                             | <0.00284            | NA                              | <0.00284           | <0.00284                                    |
| SS-BLDG-2        | 5                 | 1/12/09         | <0.00697                       | <0.00349                               | <0.00349                     | <0.00349              | NA                                             | <0.00349                   | <0.00349                                                  | <0.00349                    | <0.00349                                               | <0.00697             | <0.00349                        | <0.00697                  | <0.00349                     | <0.00349                             | NA                     | NA                             | <0.00349            | NA                              | <0.00349           | <0.00349                                    |
| SS-BLDG-5        | 1                 | 1/12/09         | <0.00495                       | <0.00247                               | <0.00247                     | <0.00247              | NA                                             | <0.00247                   | <0.00247                                                  | <0.00247                    | <0.00247                                               | <0.00495             | <0.00247                        | <0.00495                  | <0.00247                     | <0.00247                             | NA                     | NA                             | <0.00247            | NA                              | <0.00247           | <0.00247                                    |
| SS-BLDG-6        | 1                 | 1/12/09         | <0.00493                       | <0.00246                               | <0.00246                     | <0.00246              | NA                                             | <0.00246                   | <0.00246                                                  | <0.00246                    | <0.00246                                               | <0.00493             | <0.00246                        | <0.00493                  | <0.00246                     | <0.00246                             | NA                     | NA                             | <0.00246            | NA                              | <0.00246           | <0.00246                                    |
| SS-HA-1          | 1                 | 1/12/09         | <0.00569                       | <0.00284                               | <0.00284                     | <0.00284              | NA                                             | <0.00284                   | <0.00284                                                  | <0.00284                    | <0.00284                                               | <0.00569             | <0.00284                        | <0.00569                  | <0.00284                     | 0.00657                              | NA                     | NA                             | <0.00284            | NA                              | 0.00674            | <0.00284                                    |
| SS-HA-2          | 1                 | 1/12/09         | <0.0065                        | <0.00325                               | <0.00325                     | <0.00325              | NA                                             | 0.00716                    | <0.00325                                                  | <0.00325                    | <0.00325                                               | <0.0065              | <0.00325                        | <0.0065                   | <0.00325                     | 0.178                                | NA                     | NA                             | <0.00325            | NA                              | 0.00473            | <0.00325                                    |
| Vadose Zone Soil |                   |                 |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| GP007            | 2-4               | 8/9/05          |                                |                                        |                              | <0.0045               | <0.0045                                        |                            | <0.0045                                                   | <0.0045                     |                                                        |                      | <0.0045                         |                           |                              |                                      | <0.0045                | <0.0045                        |                     | <0.0045                         | <0.0045            |                                             |
| GP008            | 2-4               | 8/9/05          |                                |                                        |                              | <0.0054               | <0.0054                                        |                            | <0.0054                                                   | <0.0054                     |                                                        |                      | <0.0054                         |                           |                              |                                      | <0.0054                | <0.0054                        |                     | <0.0054                         | <0.0054            |                                             |
| SS-BLDG-2        | 1                 | 1/12/09         | <0.00536                       | <0.00268                               | <0.00268                     | <0.00268              | NA                                             | <0.00268                   | <0.00268                                                  | <0.00268                    | <0.00268                                               | <0.00536             | <0.00268                        | <0.00536                  | <0.00268                     | <0.00268                             | NA                     | NA                             | <0.00268            | NA                              | <0.00268           | <0.00268                                    |
| SS-BLDG-3        | 1                 | 1/12/09         | <0.00602                       | <0.00301                               | <0.00301                     | <0.00301              | NA                                             | <0.00301                   | <0.00301                                                  | <0.00301                    | <0.00301                                               | <0.00602             | <0.00301                        | <0.00602                  | <0.00301                     | <0.00301                             | NA                     | NA                             | <0.00301            | NA                              | <0.00301           | <0.00301                                    |
| SS-BLDG-4        | 1                 | 1/12/09         | <0.00598                       | <0.00299                               | <0.00299                     | <0.00299              | NA                                             | <0.00299                   | <0.00299                                                  | <0.00299                    | <0.00299                                               | <0.00598             | <0.00299                        | <0.00598                  | <0.00299                     | <0.00299                             | NA                     | NA                             | <0.00299            | NA                              | <0.00299           | <0.00299                                    |
| Other (sediment) |                   |                 |                                |                                        |                              |                       |                                                |                            |                                                           |                             |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |
| South Ditch      | 0-2               | 6/19/04         |                                |                                        |                              | <0.0064               | <0.0064                                        |                            | 0.0082                                                    | <0.0064                     |                                                        |                      |                                 |                           |                              |                                      |                        |                                |                     |                                 |                    |                                             |

NA: Not analyzed

ND: Not detected

Vadose Zone Soil - sample collected above or at the high water table mark

Solid Aquifer Matrix - sample collected below the high water table mark



**Capitol Adhesives**

**Table B-3. Anaerobic Biodegradation Preliminary Screening**

| Indicator Parameter                   | Criterion   | Scoring Value | Plume  |        |        |        | Sidegradient |         | Downgradient | Upgradient |
|---------------------------------------|-------------|---------------|--------|--------|--------|--------|--------------|---------|--------------|------------|
|                                       |             |               | MW-3   | MW-3D  | MW-4   | MW-5   | MW-12        | MW-14   | MW-16        | MW-8       |
| Oxygen                                | < 0.5 mg/L  | 3             | 0.44   | 0.53   | 0.41   | 0.26   | 0.3          | 0.69    | 0.37         | 0.62       |
| Nitrate                               | < 1 mg/L    | 2             | 0.019  | 0.017  | 0.016  | 0.015  |              |         |              | 1          |
| Iron II                               | > 1 mg/L    | 3             | 0.1    | 0.6    | 0.5    | 3.4    |              |         |              |            |
| Total Iron                            | >10         |               | 0.791  | 0.549  | 7.15   | 7.46   |              |         |              |            |
| Sulfate                               | < 20 mg/L   | 2             | 11     | 8      | 5      | 5      |              |         |              | 6          |
| Sulfide                               | > 1 mg/L    | 3             | ND     | ND     | ND     | ND     |              |         |              | ND         |
| Methane                               | <0.5 mg/L   | 0             | 1.5    | 0.27   | 4.3    | 8.1    |              |         |              | 0.004      |
|                                       | >0.5 mg/L   | 3             |        |        |        |        |              |         |              |            |
| ORP                                   | < 50 mV     | 1             | -54    | -109   | -57    | -147   | 160          | 76      | 137          | 98         |
|                                       | < -100 mV   | 2             |        |        |        |        |              |         |              |            |
| pH                                    | 5-9         | 0             | 6.71   | 7.07   | 6.73   | 6.9    | 6.66         | 7.39    | 6.48         | 6.82       |
|                                       | <5 or >9    | -2            |        |        |        |        |              |         |              |            |
| TOC                                   | > 20 mg/L   | 2             | 1.3    | 0.5    | 0.7    | 5.9    |              |         |              | < 5        |
| Phosphorus                            |             |               | 0.028  | <0.02  | 0.049  | 0.115  |              |         |              |            |
| Temp                                  | > 20 C      | 1             | 23.67  | 21.24  | 22.88  | 28.7   | 21.44        | 18.77   | 20.72        | 20.63      |
| Alkalinity                            | > 2 x Bkg   | 1             | 181    | 160    | 233    | 915    |              |         |              | 126        |
| Chloride                              | > 2 x Bkg   | 2             | 34     | 15     | 9.7    | 33     |              |         |              | 6.5        |
| TCE                                   |             | 2             | 4.5    | 1.3    | 0.086  | <0.005 | 0.0068       | <0.005  | <0.005       | <0.005     |
| DCE                                   |             | 2             | 1      | 0.3    | 0.057  | <0.005 | 0.0076       | <0.005  | <0.005       | <0.005     |
| VC                                    |             | 2             | 0.11   | 0.077  | 0.059  | 0.011  | <0.002       | <0.002  | <0.002       | <0.002     |
| DCA                                   |             | 2             | 0.31   | 0.15   | 0.0062 | 0.0051 | <0.005       | <0.005  | <0.005       | <0.005     |
| Chloroethane                          |             | 2             | <0.01  | <0.01  | <0.01  | 0.24   | <0.01        | <0.01   | <0.01        | <0.01      |
| Ethene/Ethane                         | > 0.01 mg/L | 2             | 0.055  | ND     | 0.048  | 0.31   |              |         |              | ND         |
|                                       | > 0.1 mg/L  | 3             |        |        |        |        |              |         |              |            |
| Score                                 |             |               | 28     | 24.5   | 26     | 31     | 12           | 7.5     | 8            | 12.5       |
| Evidence for reductive dechlorination |             |               | Strong | Strong | Strong | Strong | Limited      | Limited | Limited      | Limited    |

Strong (>20) = Strong evidence for reductive dechlorination

Adequate (15-20) = Adequate evidence for reductive dechlorination

Limited (6-14) = Limited evidence for reductive dechlorination

Inadequate (0-5) = Inadequate evidence for reductive dechlorination

Data from October 2010

Meets criterion

**Capitol Adhesives**  
**Table B-4. Anaerobic Microbial Testing Results (October, 2010)**

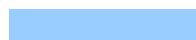
| Test 1: Plate Counting |                                  |                                     |                                                           |                                                |                                    | Test 2: CENSUS                                       |                   |                                |                  |                               |
|------------------------|----------------------------------|-------------------------------------|-----------------------------------------------------------|------------------------------------------------|------------------------------------|------------------------------------------------------|-------------------|--------------------------------|------------------|-------------------------------|
|                        | Anaerobic<br>CFU/mL at<br>48 hrs | % Strain 1A (low<br>discrimination) | % Strain 5A<br>( <i>Achromobacter<br/>denitrificans</i> ) | % Strain 6<br>( <i>Kocuria<br/>kristinae</i> ) | % Strain 7 (low<br>discrimination) | <i>Dehalococcoid</i><br><i>es spp.</i><br>(cells/mL) | tceA<br>Reductase | vinyl<br>chloride<br>reductase | bva<br>Reductase | <i>Dehaloba<br/>cter spp.</i> |
| Groundwater Testing    |                                  |                                     |                                                           |                                                |                                    |                                                      |                   |                                |                  |                               |
| MW-3                   | 70                               |                                     | 10%                                                       | 90%                                            |                                    | 93.9                                                 | 42.2              | 5.6                            | <0.4             | 1600                          |
| MW-3D                  | 20                               | 34%                                 |                                                           | 33%                                            | 33%                                |                                                      |                   |                                |                  |                               |
| MW-5                   | 30                               |                                     | 100%                                                      |                                                |                                    | 64,800                                               | 3,860             | 37,300                         | <0.8             | 7340                          |
| MW-4                   | <10                              |                                     |                                                           |                                                |                                    |                                                      |                   |                                |                  |                               |
| Endpoint Assay         |                                  |                                     |                                                           |                                                |                                    |                                                      |                   |                                |                  |                               |
| 111-TCA                |                                  | Excellent                           | Excellent                                                 | No Effect                                      | Inhibited                          |                                                      |                   |                                |                  |                               |
| TCE                    |                                  | Excellent                           | Excellent                                                 | Inhibited                                      | Good                               |                                                      |                   |                                |                  |                               |

10-1,000 potential if VC Rdases present  
>10,000 good if RDases present

**Table B-5. Aerobic Microbial Testing Results (October, 2010)**

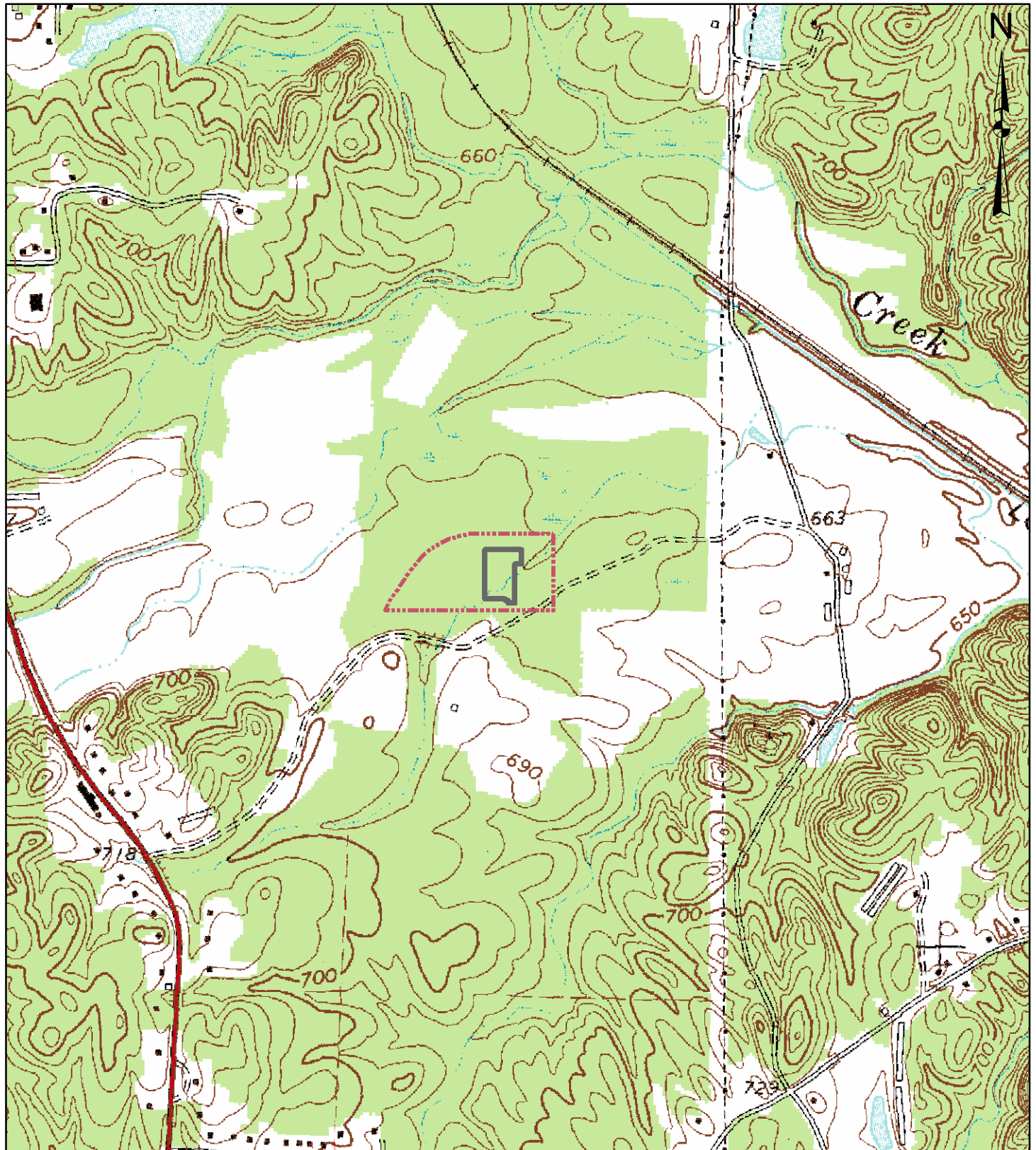
| Test 1: Plate Counting |                                |                                                |                                                         |                                                     |                                                     |                              |
|------------------------|--------------------------------|------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|------------------------------|
|                        | Aerobic<br>CFU/mL at<br>48 hrs | % Strain 1<br>( <i>Kocuria<br/>kristinae</i> ) | % Strain 2<br>( <i>Micrococcus<br/>luteus / lylae</i> ) | % Strain 3<br>( <i>Pseudomonas<br/>aeruginosa</i> ) | % Strain 4<br>( <i>Pseudomonas<br/>aeruginosa</i> ) | % Strain 5<br>(unidentified) |
| Groundwater Testing    |                                |                                                |                                                         |                                                     |                                                     |                              |
| MW-3                   | 100                            | 95%                                            | 5%                                                      |                                                     |                                                     |                              |
| MW-3D                  | <10                            |                                                |                                                         |                                                     |                                                     |                              |
| MW-5                   | 250                            |                                                |                                                         | 98%                                                 | 2%                                                  |                              |
| MW-4                   | 70                             |                                                |                                                         |                                                     |                                                     | 100%                         |
| Endpoing Assay         |                                |                                                |                                                         |                                                     |                                                     |                              |
| 111-TCA                |                                | Minimal                                        | Inhibited                                               | Excellent                                           | Excellent                                           | Fair                         |
| TCE                    |                                | No Effect                                      | Inhibited                                               | Excellent                                           | Excellent                                           | Minimal                      |

 Good indication of biodegradation

 Moderate indication of biodegradation

## **FIGURES**

# Capitol Adhesives Topographic Map



0 500 1,000  
Feet

Source: USGS Quadrangle Dalton South, Georgia 1982

## Legend

-  Building
-  Property Boundary

# Capitol Adhesives Aerial of Property and Site Features



0 37.5 75 150  
Feet

## Legend

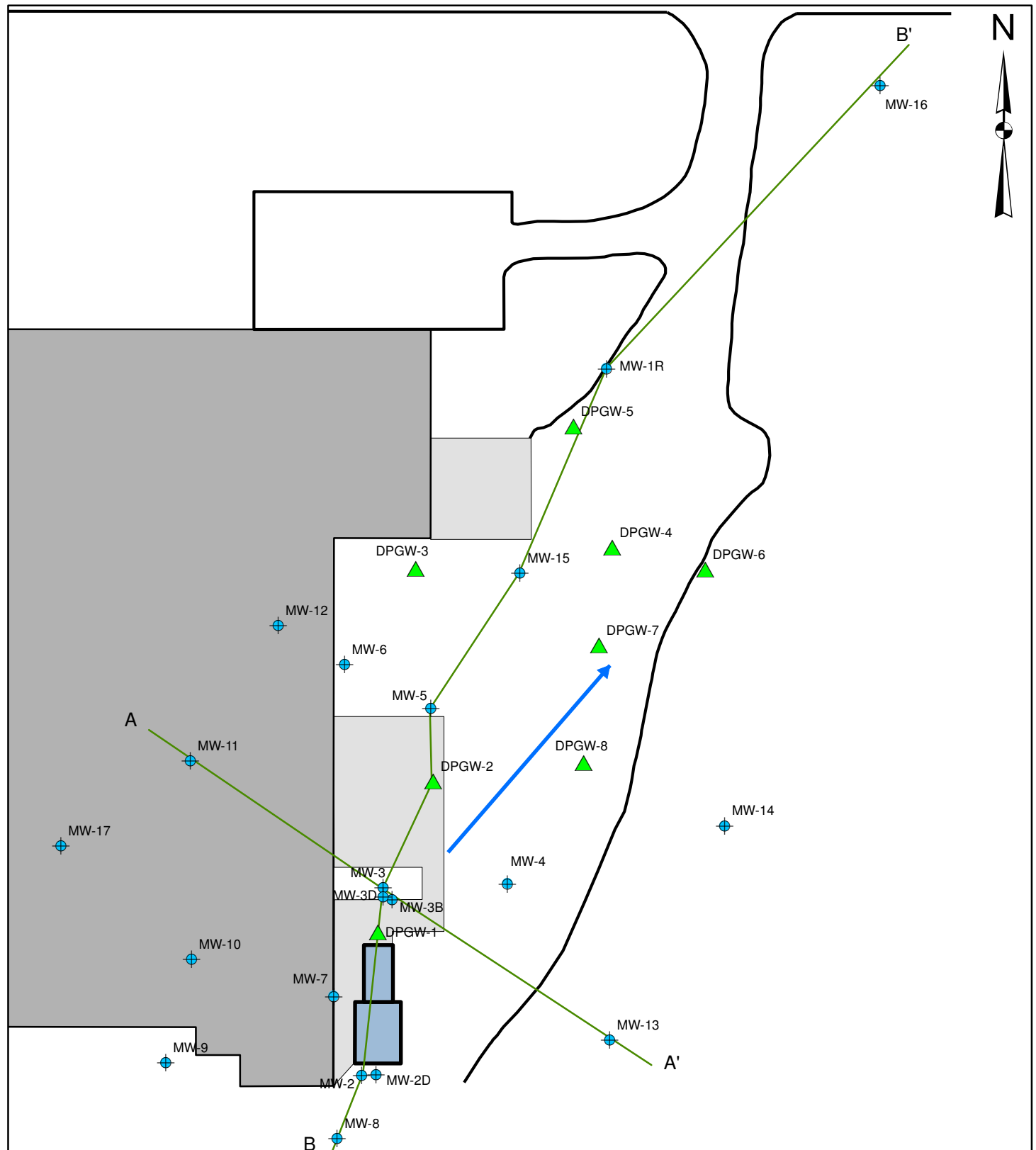
- AST Containment Area
- Location of Spill (approx)

- Storm Water Outfall
- Open Drains
- Subgrade Storm/Drain Lines

- Drainage Ditch
- Approximate Property Boundary

Source: FlashEarth 2008

# Capitol Adhesives Cross-Section Location Map



0 50 100  
Feet

## Legend

- MW Monitoring Well Location
- ▲ DPGW Direct-push Groundwater Sampling Location

→ General Direction of Groundwater Flow

- AST Containment
- Facility
- Concrete Surface

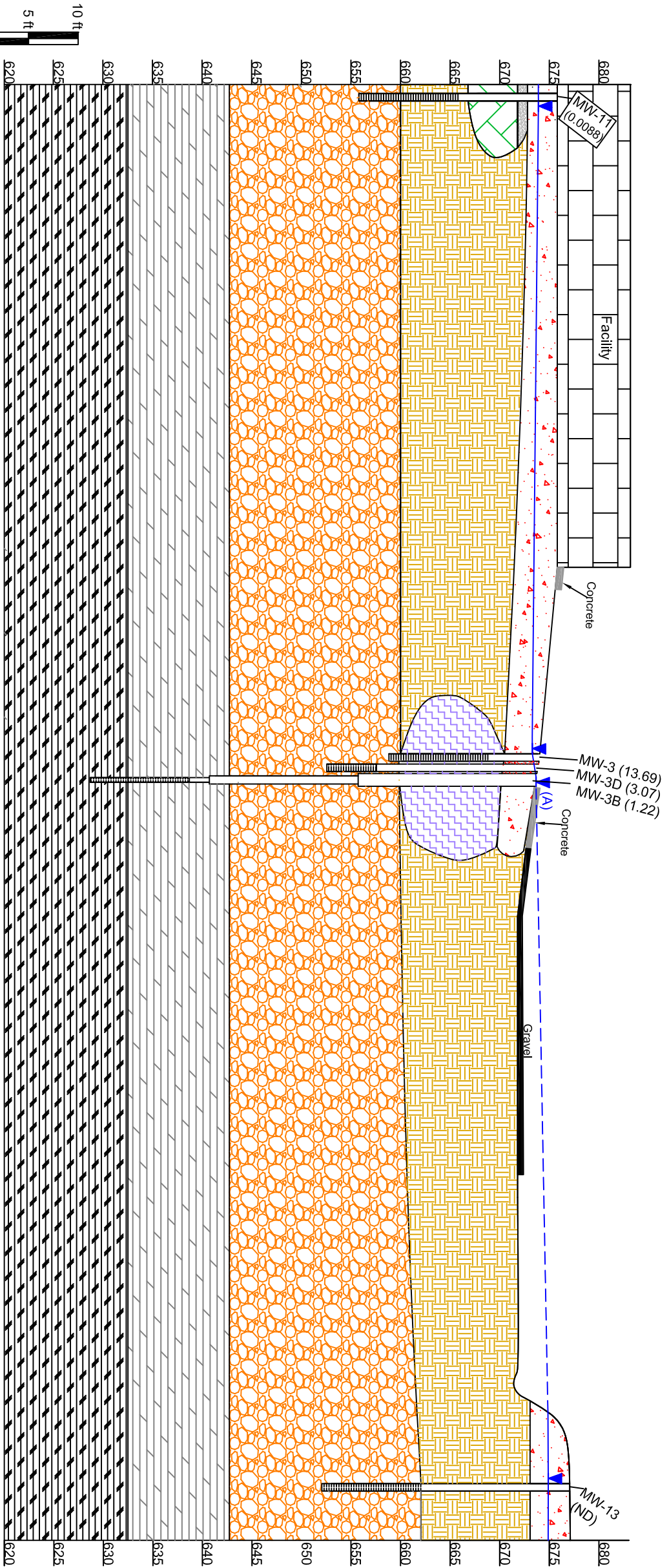
Lithological  
Cross Section A-A'  
(Profile)

West

A

A'

East



Legend

- Fill Material
- Weathered Shale
- Clayey Fine to Coarse Sand with Gravel
- Shale Rock
- Fine to Coarse Sandy Clay with Trace Gravel
- Shaly Clay
- Silty Fine Sand
- Harder Rock (Possibly Limestone)
- Historical "High" recorded water table
- Well was artesian at time of gauging

(9.8) Total chlorinated ethanes and ethenes (mg/L) in 2012; includes TCA, DCA, CA, PCE, TCE, DCE, VC;

EPS

1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338  
Phone: (404) 315-9113

|          |    |       |
|----------|----|-------|
| DES      | JD | 10/10 |
| CHK      | FR | 9/12  |
| REV      | AP | 10/10 |
| PROJ MGR | TB | 10/10 |
| OPER     |    |       |

Lithological Cross-Section  
A-A'

FIGURE  
B-4

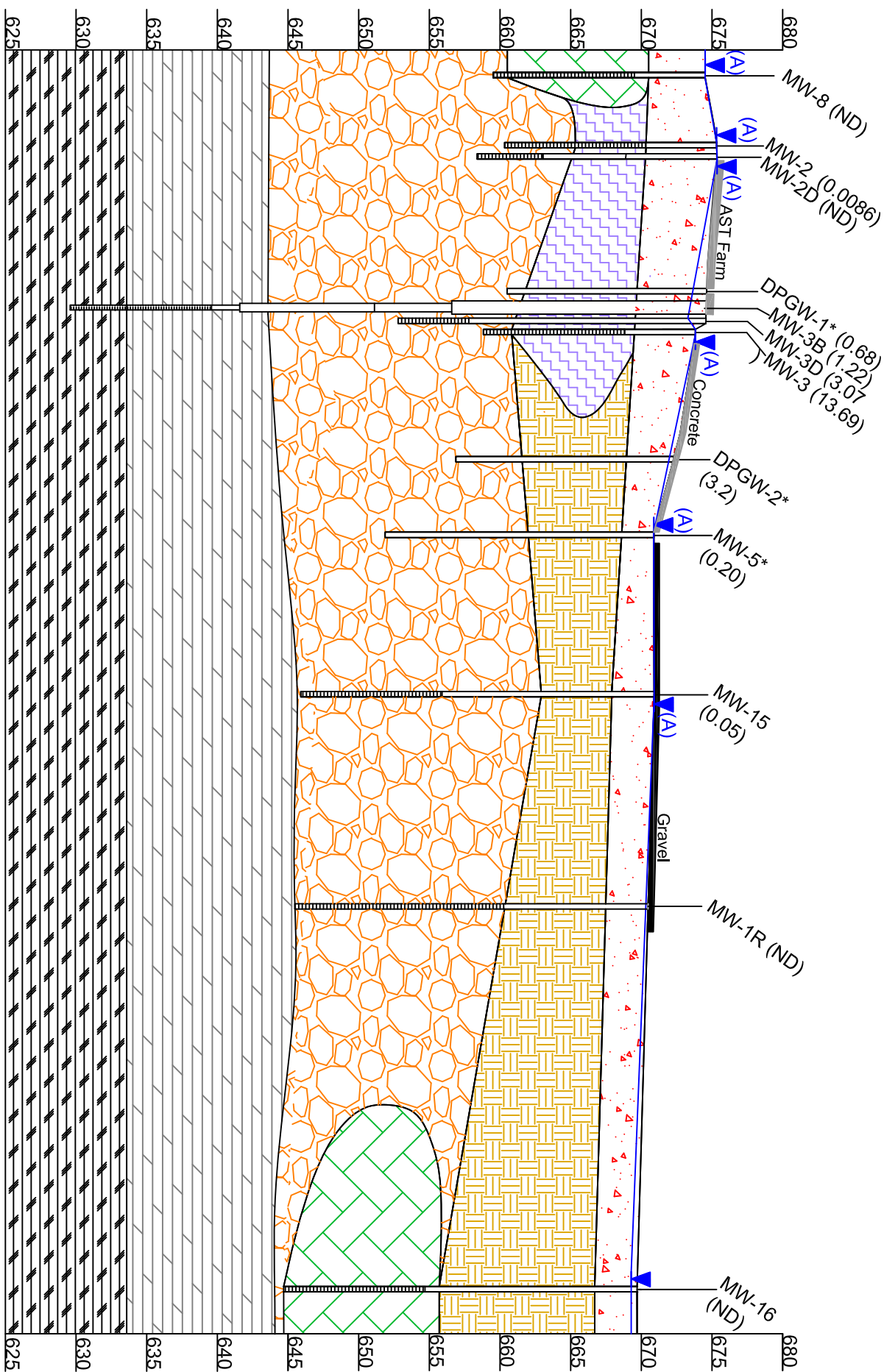
DATE: October 2012

Capitol Adhesives  
300 Cross Plains Blvd.  
Dalton, GA 30721

South  
B

North  
B'

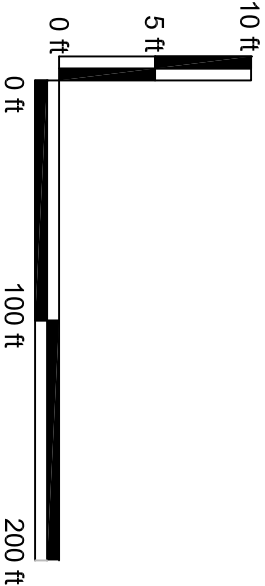
Lithological  
Cross Section B-B'  
(Profile)



**Legend**

- Fine to Coarse Sandy Clay with Trace Gravel
- Weathered Shale
- Clayey Fine to Coarse Sand with Gravel
- Fill Material
- Shale Rock
- Shaly Clay
- Harder Rock (Possibly Limestone)

▼ Historical "High" recorded water table  
(A) Well was artesian at time of gauging  
(3.2) Total chlorinated ethanes and ethenes (mg/L) in 2012 (DPGW samples from 2009); includes TCA, DCA, CA, PCE, TCE, DCE, VC;  
\* No boring log available



1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338  
Phone: (404) 315-9113

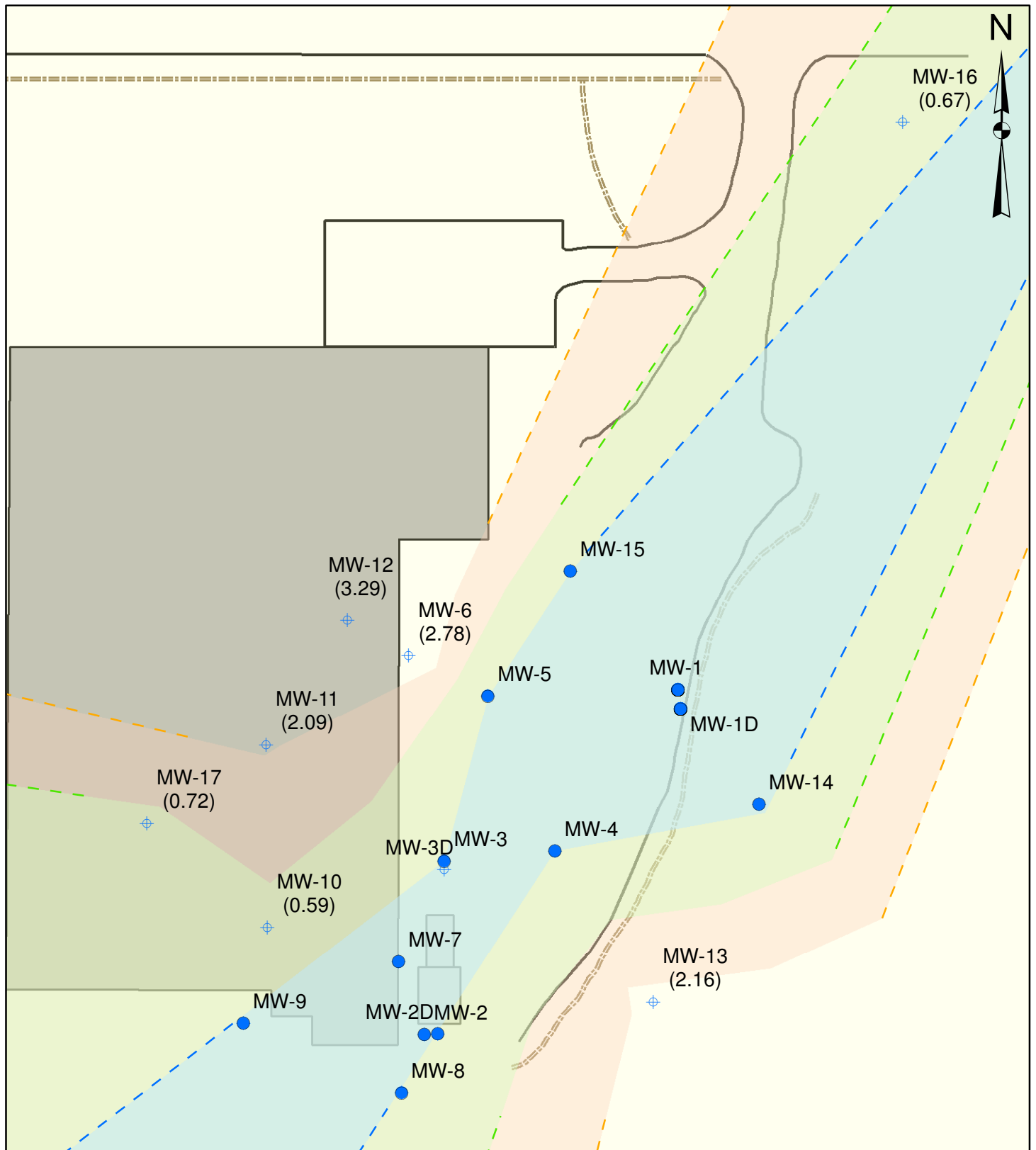
| DES      | JD | DATE: October 2012 |  |
|----------|----|--------------------|--|
| DRN      | JD | 10/10              |  |
| CHK      |    |                    |  |
| REV      | FR | 5/11               |  |
| APP      |    |                    |  |
| PROJ MGR | TB | 10/10              |  |
| OPER     |    |                    |  |

Capitol Adhesives  
300 Cross Plains Blvd.  
Dalton, GA 30721

Lithological Cross-Section  
B-B'

B-5

# Capitol Adhesives Soil Zones Based on High Water Table Conditions



0 50 100  
Feet

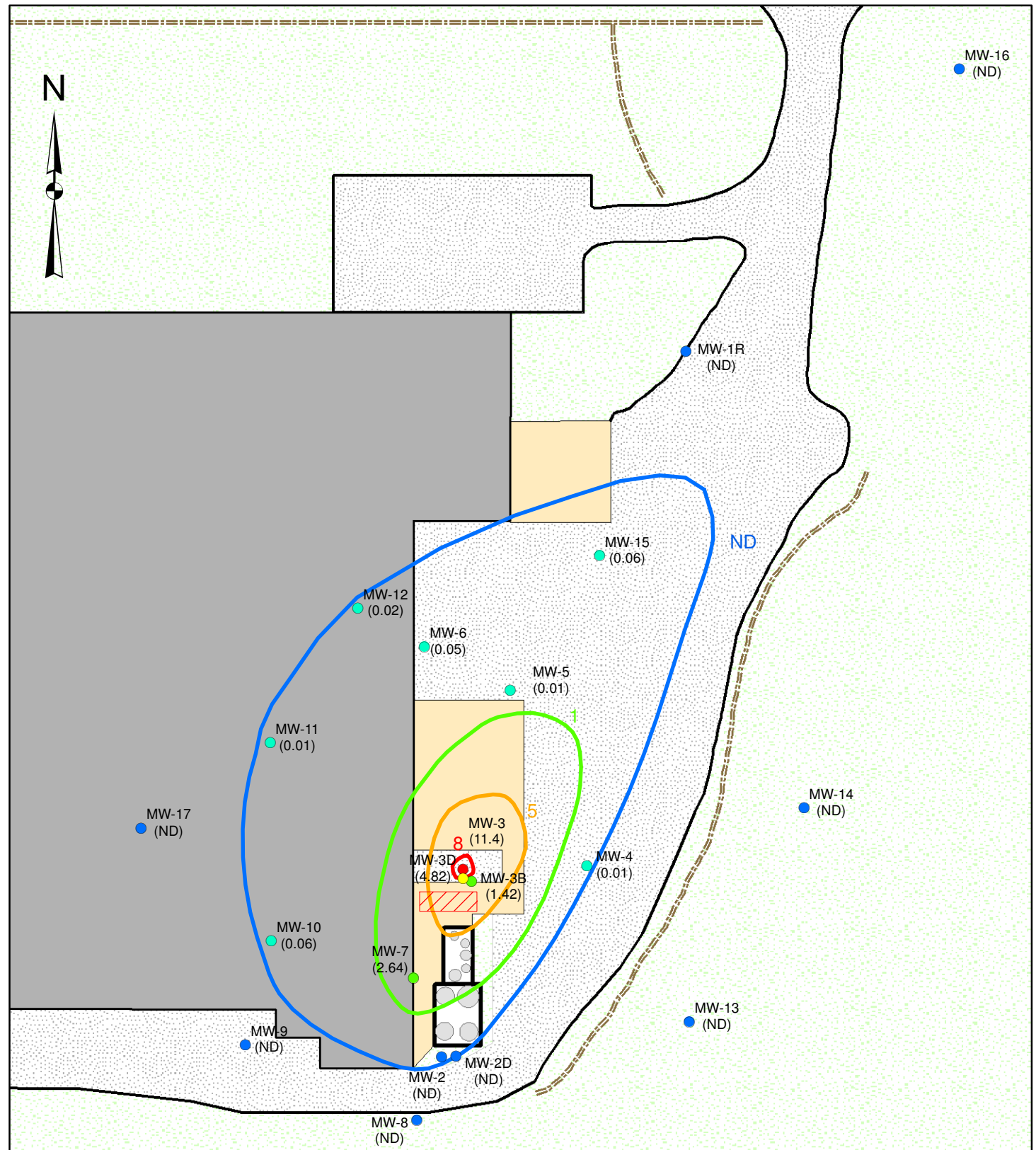
## Legend

- Wells in Fully Saturated Zone
- ⊕ Monitoring Wells (depth to groundwater in feet)
- - - Dashed Lines Where Inferred

## Soil Zones from High Water Tables

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

# Capitol Adhesives Groundwater Total Chlorinated Ethenes\* (February 2013)



0 50 100  
Feet

**Total VOCs\* (mg/L)**

- |         |         |
|---------|---------|
| ● ND    | ● 3 - 5 |
| ● < 1   | ● 5 - 8 |
| ● 1 - 3 | ● > 8   |

— Isopleth

- Location of Spill (approx)
- AST Containment Area
- Building
- Concrete Pad
- Packed Gravel Drive/Parking
- Grass

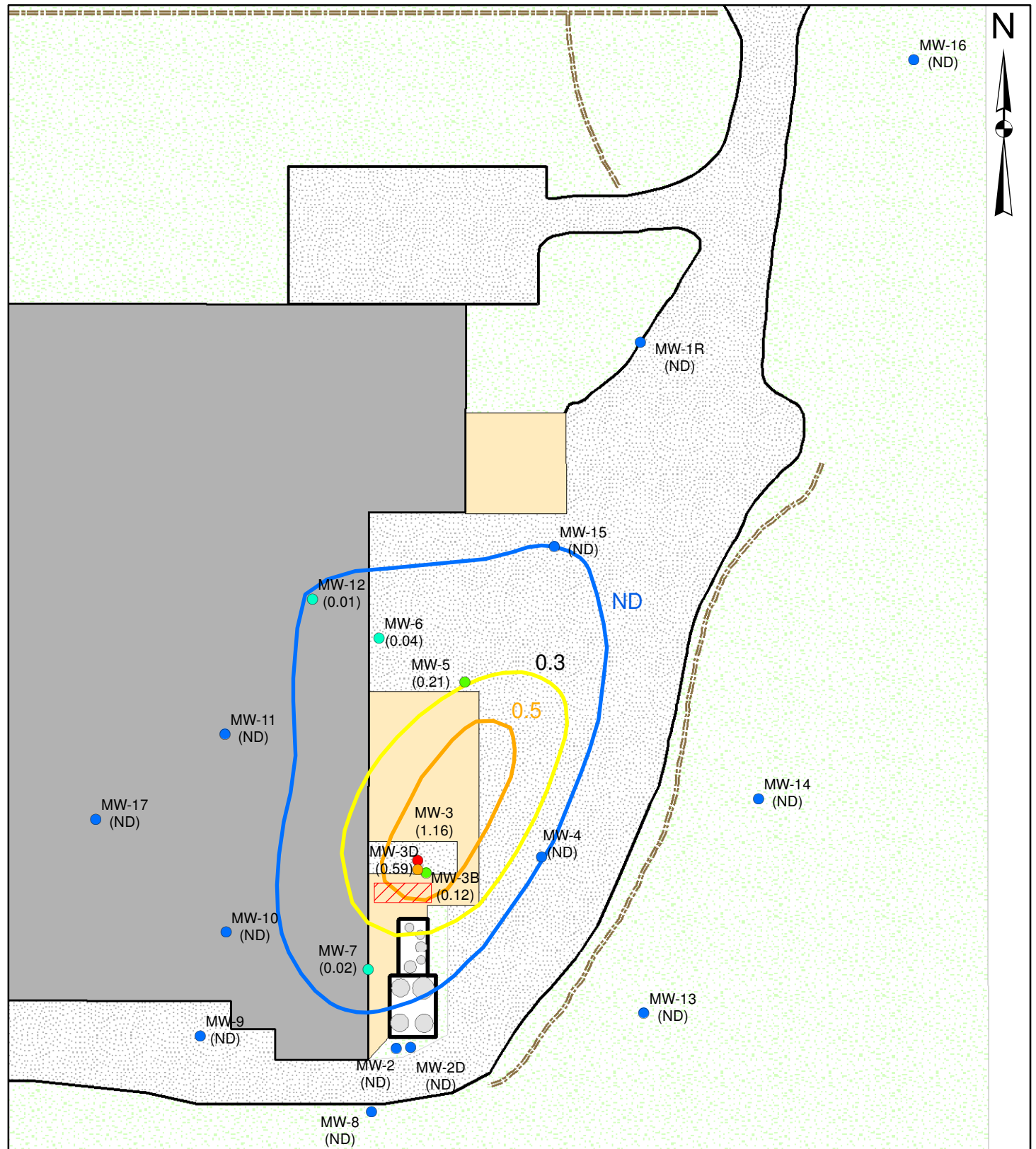
\* Chlorinated ethenes = PCE, TCE, DCE, and VC

EPS

G:\River Associates\Capitol Adhesives\VRP Program\GIS\Progress Reports\April 2013\CSMFig7\_GWPCE.mxd

**Figure No. B-7**

# Capitol Adhesives Groundwater Total Chlorinated Ethanes\* (February 2013)



0 50 100  
Feet

## Total VOCs\* (mg/L)

- |         |         |
|---------|---------|
| ● ND    | ● 3 - 5 |
| ● < 1   | ● 5 - 8 |
| ● 1 - 3 | ● > 8   |

— Isopleth

▨ Location of Spill (approx)

▭ AST Containment Area

■ Building

■ Concrete Pad

▤ Packed Gravel Drive/Parking

▤ Grass

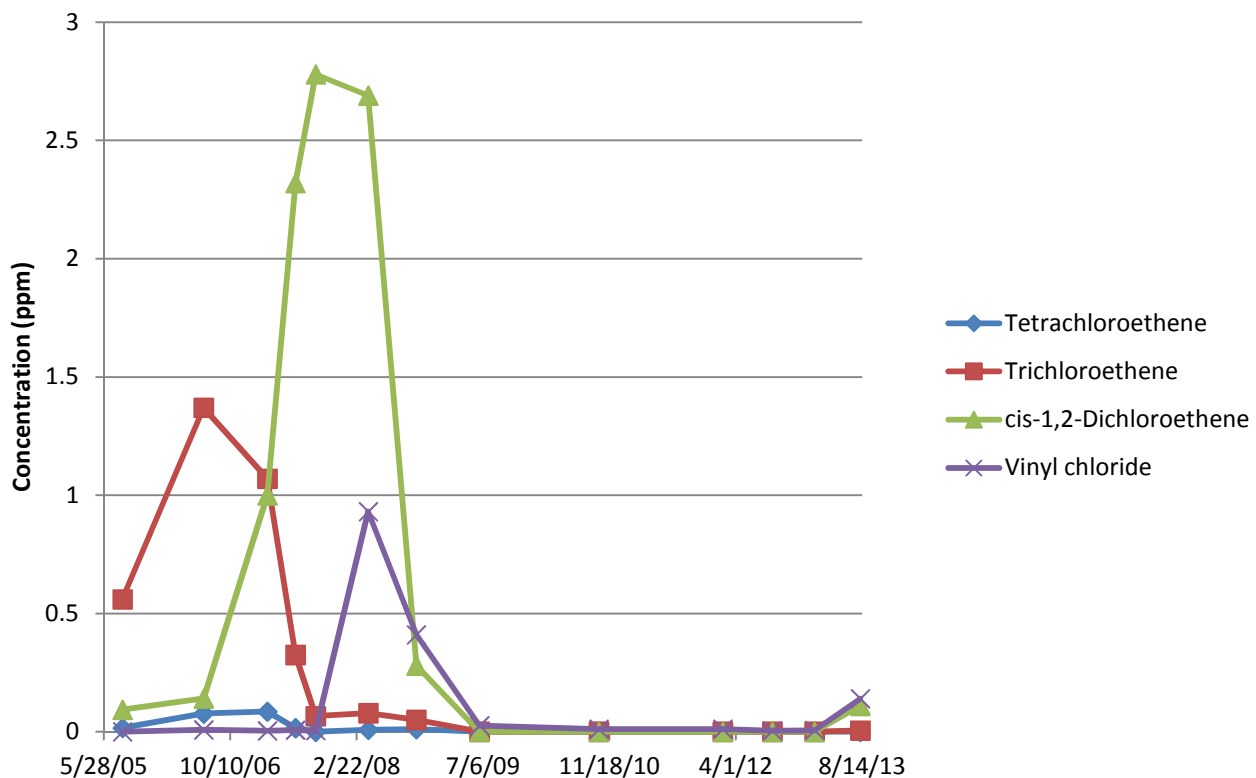
\* Circles - Feb 2012 data Squares - Aug 2012 data  
Chlorinated ethanes = TCA, DCA, and CA

EPS

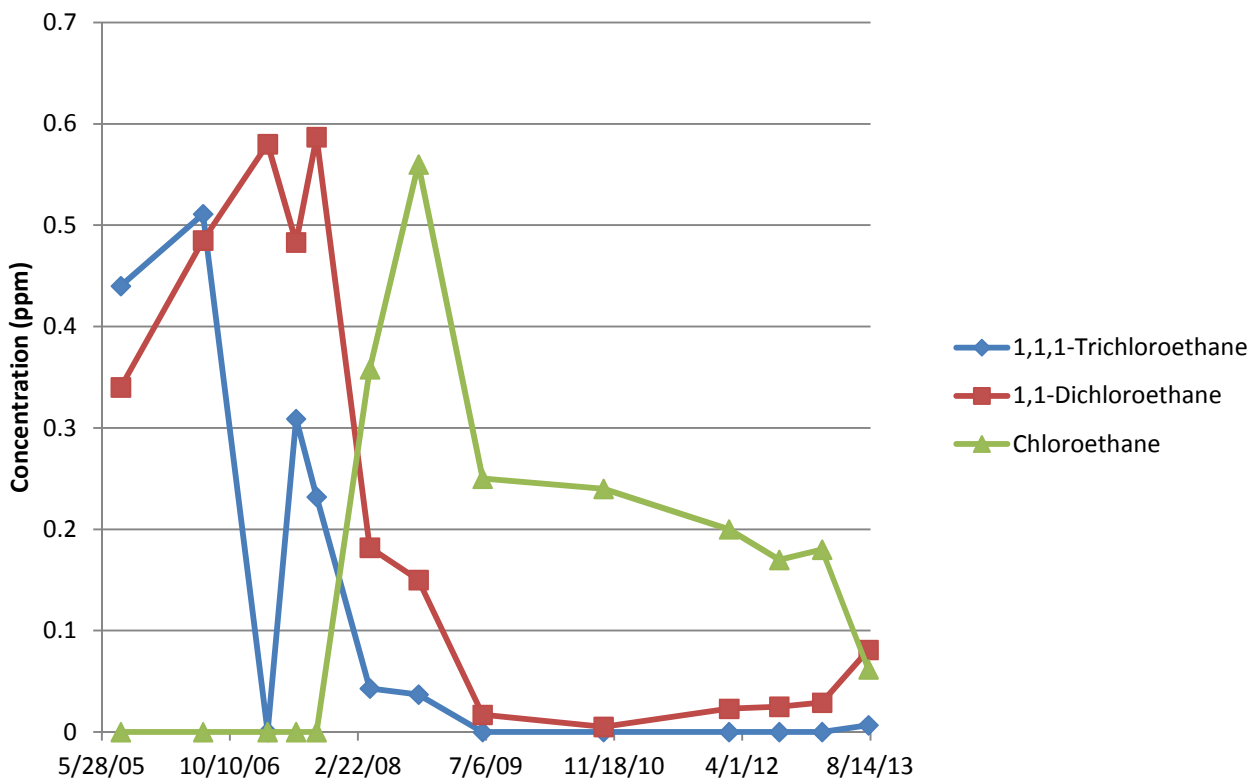
G:\River Associates\Capitol Adhesives\VRP Program\GIS\Progress Reports\April 2013\Fig8\_GWTCa.mxd

**Figure No. B-8**

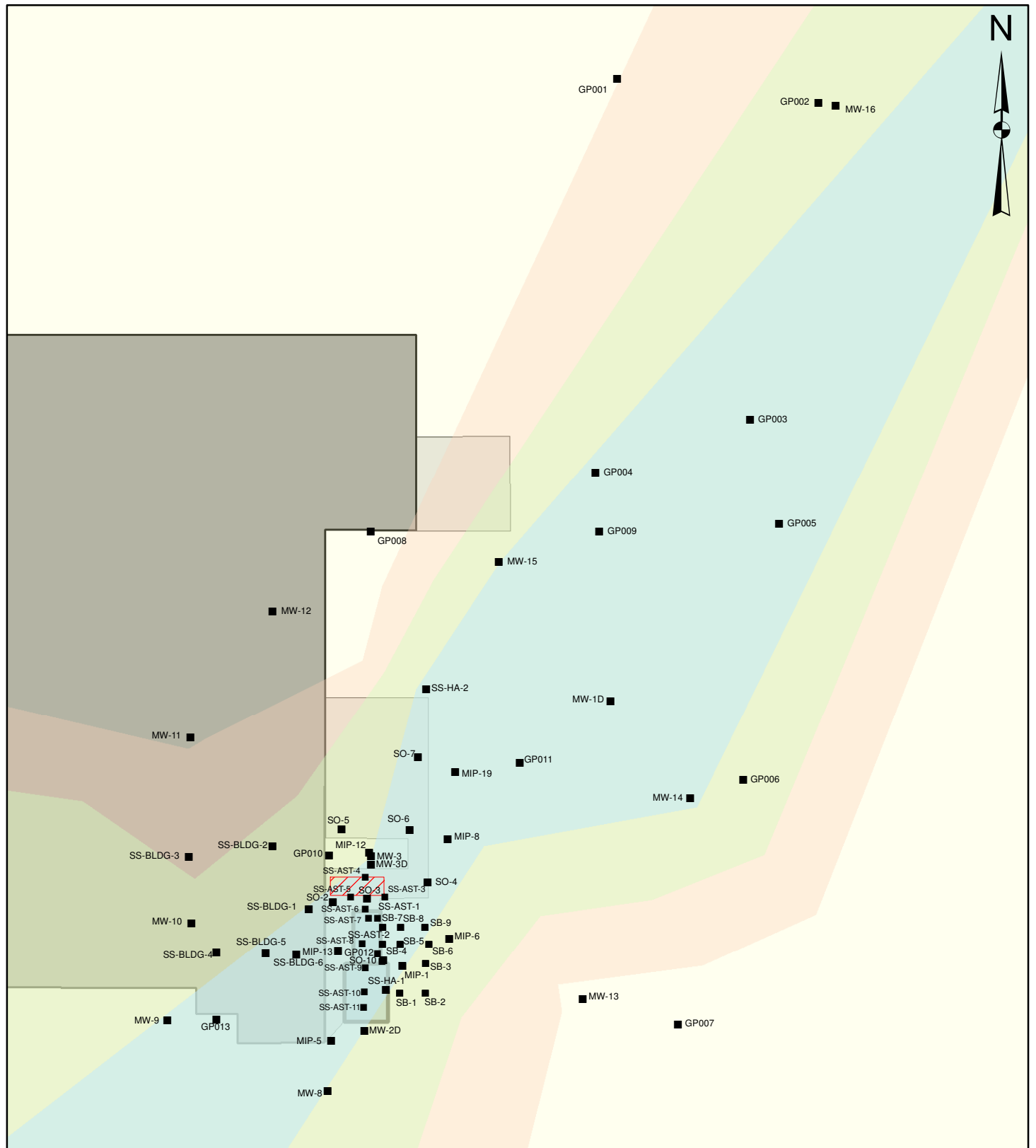
**Figure B-9. MW-5 PCE Degradation Time Series**



**Figure B-10. MW-5 TCA Degradation Time Series**



# Capitol Adhesives Location of Solid Matrix Samples and Water Table Zones



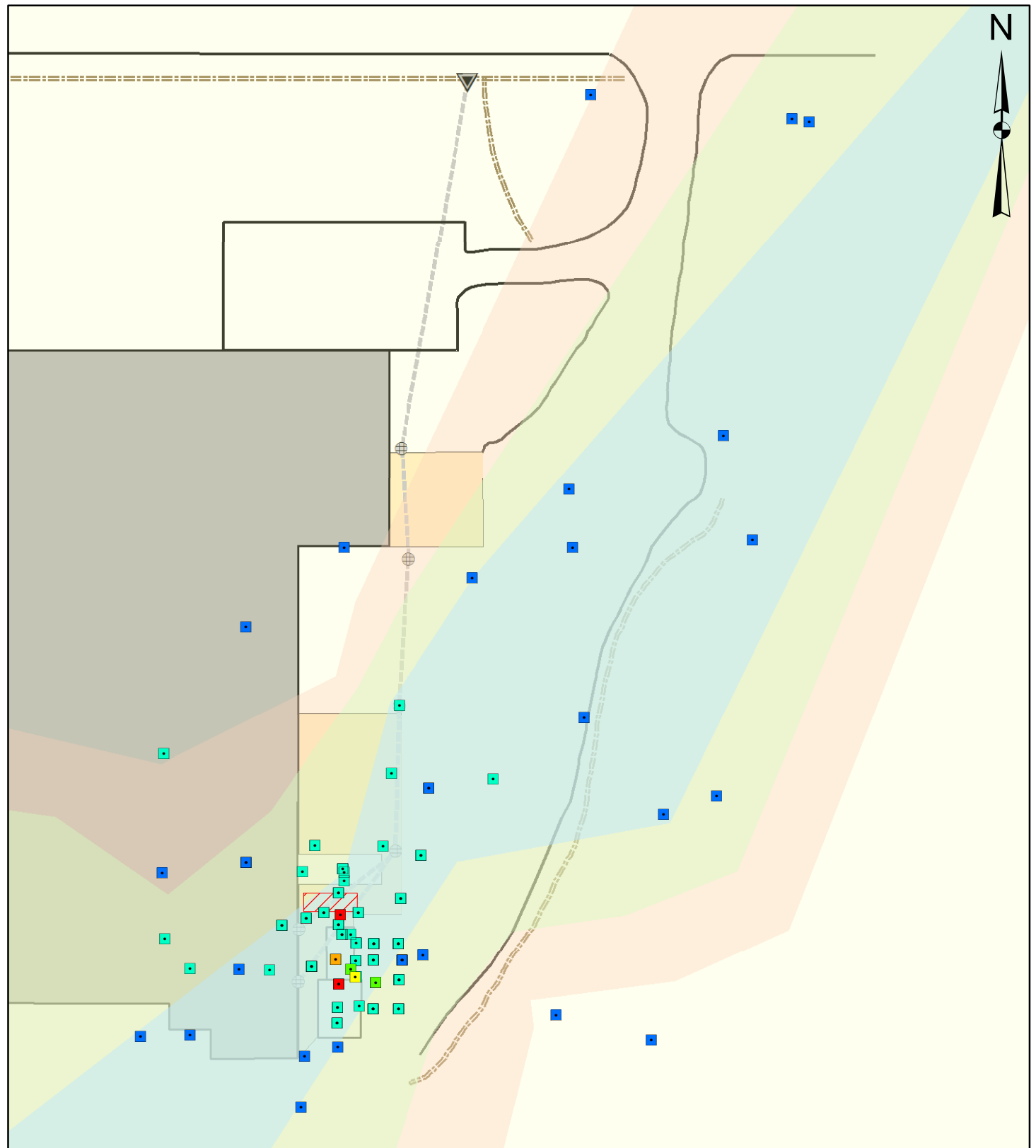
0 50 100  
Feet

## Soil Zone

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

- Location of Spill (approx)
- AST Containment
- Building
- Concrete Pad

# Capitol Adhesives Total Chlorinated Ethenes\* in Subsurface Solids



0 50 100  
Feet

## Total VOCs\* (mg/kg)

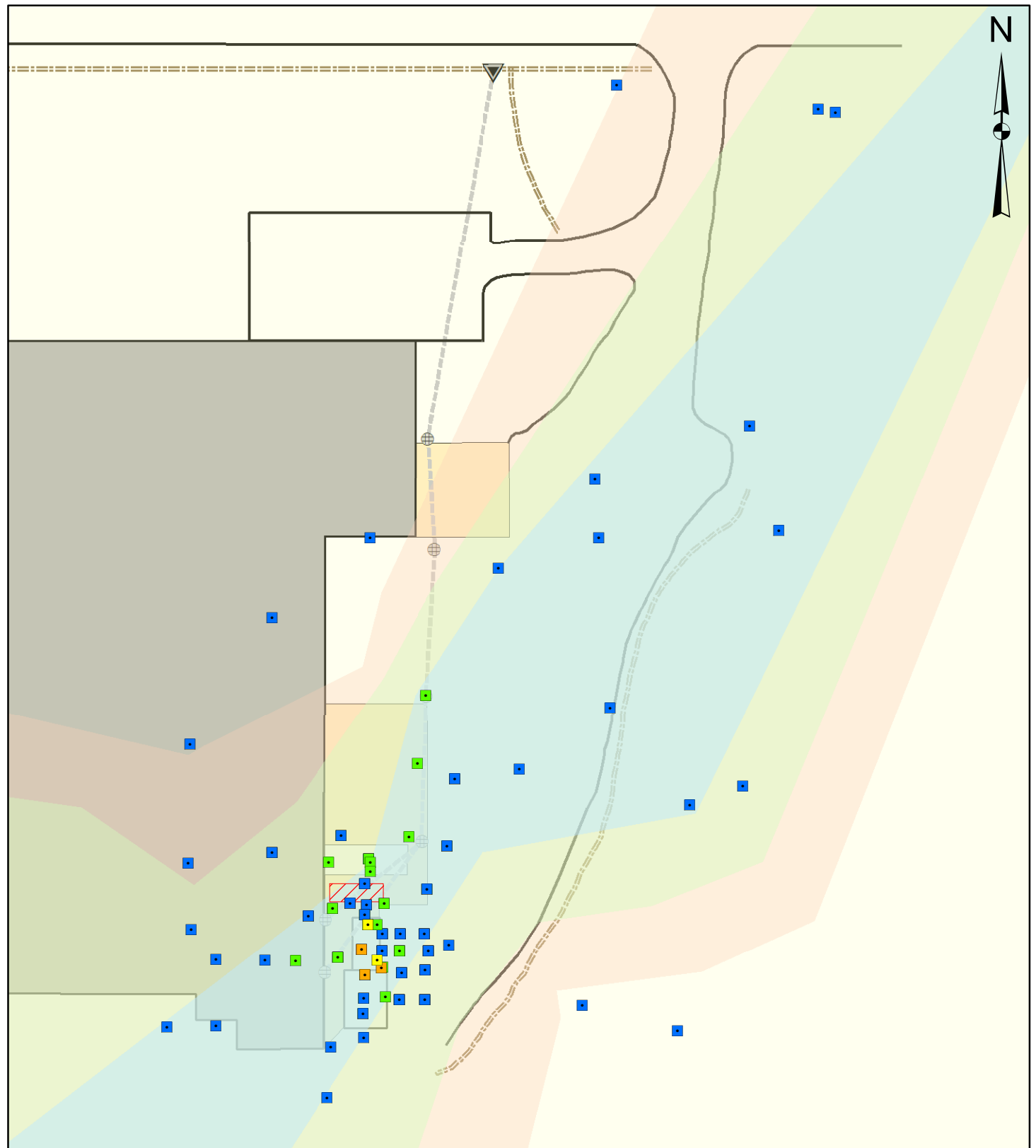
- ND
- < 15
- 15 - 30
- 30 - 75
- 75 - 150
- > 150
- ▨ Location of 1995 Spill (approx)

## Soil Zones

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

\* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethenes = PCE, TCE, DCE, and VC

# Capitol Adhesives Total Chlorinated Ethanes\* in Subsurface Solids



0 50 100  
Feet

## Total VOCs\* (mg/kg)

- ND
- 5 - 20
- < 1
- > 20
- 1 - 5

Location of 1995 Spill (approx)

## Soil Zones

- Fully Saturated Zone
- 0-1' Vadose Zone
- 1-2' Vadose Zone
- >2' Vadose Zone

Squares represent solid aquifer matrix samples.  
Circles represent vadose zone soil samples.

\* Where multiple samples were collected, the maximum total VOC value is shown. Chlorinated ethanes = TCA, DCA and CA

**APPENDIX C**

**GROUNDWATER LABORATORY DATA REPORT AND  
WELL FORMS**



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

August 14, 2013

Gregg Henry  
Environmental Planning Specialists, Inc.  
1050 Crown Pointe Parkway  
Atlanta GA 30338

TEL: (404) 315-9113  
FAX: (404) 315-8509

RE: Capitol Adhesives

Dear Gregg Henry:

Order No: 1308512

Analytical Environmental Services, Inc. received 9 samples on 8/7/2013 8:35:00 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 07/01/13-06/30/14.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/15.

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

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

Dorothy deBruyn  
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: 1308512

DATE: 8-6-13 Page 1 of 1

| COMPANY:                                                                                                                                                                     |             | ADDRESS:                                                                                                              |                                 | ANALYSIS REQUESTED                                                                                                 |                                                                                        | REMARKS            |   | No # of Containers |   |                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------|---|--------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------|
| EPS Inc                                                                                                                                                                      |             | 1050 Crown Point Pkwy<br>ATL, GA 30338                                                                                |                                 | Visit our website<br>www.aesatlanta.com<br>to check on the status of<br>your results, place bottle<br>orders, etc. |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| PHONE: 404-315-9113                                                                                                                                                          |             | FAX:                                                                                                                  |                                 | PRESERVATION (See codes)                                                                                           |                                                                                        | REMARKS            |   |                    |   |                                                                                                                                             |
| SAMPLED BY: G. Henry / W. Crowe                                                                                                                                              |             | SIGNATURE: <i>G. Henry</i>                                                                                            |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| #                                                                                                                                                                            | SAMPLE ID   | DATE                                                                                                                  | TIME                            | Grab                                                                                                               | Composite                                                                              | Matrix (See codes) |   |                    |   |                                                                                                                                             |
| 1                                                                                                                                                                            | 13217-MW-16 | 8-5-13                                                                                                                | 1635                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 2                                                                                                                                                                            | 13217-MW-4  | 8-5-13                                                                                                                | 1722                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 3                                                                                                                                                                            | 13218-MW-5  | 8-6-13                                                                                                                | 1005                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 4                                                                                                                                                                            | 13218-MW-15 | 8-6-13                                                                                                                | 1115                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 5                                                                                                                                                                            | 13218-MW-3D | 8-6-13                                                                                                                | 1245                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 6                                                                                                                                                                            | 13218-MW-3  | 8-6-13                                                                                                                | 1257                            | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 7                                                                                                                                                                            | 13218-DUP   | 8-6-13                                                                                                                |                                 | X                                                                                                                  |                                                                                        | GW                 | X |                    | 0 |                                                                                                                                             |
| 8                                                                                                                                                                            | 13218-Rmge  | 8-6-13                                                                                                                | 1135                            | X                                                                                                                  |                                                                                        | W                  | X |                    | 0 |                                                                                                                                             |
| 9                                                                                                                                                                            | TRIP BLANK  | 8-5-13                                                                                                                |                                 | X                                                                                                                  |                                                                                        | W                  | X |                    | 0 |                                                                                                                                             |
| 10                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| 11                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| 12                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| 13                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| 14                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |
| RELINQUISHED BY: <i>[Signature]</i>                                                                                                                                          |             | DATE/TIME: 8/7/13 0835                                                                                                | RECEIVED BY: <i>[Signature]</i> | DATE/TIME: 8/7/13 8:35                                                                                             | PROJECT NAME: CAPITOL ADHESIVES                                                        |                    |   |                    |   | RECEIPT: Total # of Containers: 10                                                                                                          |
| 3.                                                                                                                                                                           |             |                                                                                                                       |                                 |                                                                                                                    | PROJECT #:                                                                             |                    |   |                    |   | Turnaround Time Request:<br>Standard 5 Business Days<br>2 Business Day Rush<br>Next Business Day Rush<br>Same Day Rush (auth req.)<br>Other |
| SPECIAL INSTRUCTIONS/COMMENTS:                                                                                                                                               |             | SHIPMENT METHOD:<br>OUT: <i>[Signature]</i> VIA: <i>[Signature]</i><br>IN: <i>[Signature]</i> VIA: <i>[Signature]</i> |                                 |                                                                                                                    | SITE ADDRESS: Cross Begins Bar, Darden, GA<br>SEND REPORT TO: TBULLMAN@envplanning.com |                    |   |                    |   | STATE PROGRAM (if any):<br>E-mail? Y/N: Fax? Y/N:<br>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. |             |                                                                                                                       |                                 |                                                                                                                    |                                                                                        |                    |   |                    |   |                                                                                                                                             |

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+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

White Copy - Original; Yellow Copy - Client

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-001

**Client Sample ID:** 13217-MW-16  
**Collection Date:** 8/5/2013 4:35:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,1-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,1-Dichloroethene                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Chloroform                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| cis-1,2-Dichloroethene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-001

**Client Sample ID:** 13217-MW-16  
**Collection Date:** 8/5/2013 4:35:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Toluene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| trans-1,2-Dichloroethene             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Trichloroethene                      | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Vinyl chloride                       | BRL    | 2.0             |      | ug/L             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Surr: 4-Bromofluorobenzene           | 99.3   | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Surr: Dibromofluoromethane           | 110    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 17:49 | GK      |
| Surr: Toluene-d8                     | 108    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 17:49 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-002

**Client Sample ID:** 13217-MW-4  
**Collection Date:** 8/5/2013 5:22:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,1-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,1-Dichloroethene                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Chloroform                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| cis-1,2-Dichloroethene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-002

**Client Sample ID:** 13217-MW-4  
**Collection Date:** 8/5/2013 5:22:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Toluene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| trans-1,2-Dichloroethene             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Trichloroethene                      | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Vinyl chloride                       | BRL    | 2.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Surr: 4-Bromofluorobenzene           | 99.1   | 64.6-123        |      | %REC             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Surr: Dibromofluoromethane           | 96.2   | 76.6-133        |      | %REC             | 179620  | 1               | 08/12/2013 23:20 | GK      |
| Surr: Toluene-d8                     | 98     | 77.8-120        |      | %REC             | 179620  | 1               | 08/12/2013 23:20 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-003

**Client Sample ID:** 13218-MW-5  
**Collection Date:** 8/6/2013 10:05:00 AM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | 6.8    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,1-Dichloroethane                   | 81     | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,1-Dichloroethene                   | 13     | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2-Dichloroethane                   | 47     | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Chloroethane                         | 62     | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Chloroform                           | 6.0    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| cis-1,2-Dichloroethene               | 110    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-003

**Client Sample ID:** 13218-MW-5  
**Collection Date:** 8/6/2013 10:05:00 AM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Toluene                              | 5.6    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| trans-1,2-Dichloroethene             | 18     | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Trichloroethene                      | 5.2    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Vinyl chloride                       | 140    | 2.0             |      | ug/L             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Surr: 4-Bromofluorobenzene           | 98.6   | 64.6-123        |      | %REC             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Surr: Dibromofluoromethane           | 98.7   | 76.6-133        |      | %REC             | 179620  | 1               | 08/12/2013 23:49 | GK      |
| Surr: Toluene-d8                     | 98     | 77.8-120        |      | %REC             | 179620  | 1               | 08/12/2013 23:49 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-004

**Client Sample ID:** 13218-MW-15  
**Collection Date:** 8/6/2013 11:15:00 AM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,1-Dichloroethane                   | 5.7    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,1-Dichloroethene                   | 14     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Chloroform                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| cis-1,2-Dichloroethene               | 29     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-004

**Client Sample ID:** 13218-MW-15  
**Collection Date:** 8/6/2013 11:15:00 AM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Toluene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| trans-1,2-Dichloroethene             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Trichloroethene                      | 20     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Vinyl chloride                       | 5.8    | 2.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Surr: 4-Bromofluorobenzene           | 102    | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Surr: Dibromofluoromethane           | 108    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 19:12 | GK      |
| Surr: Toluene-d8                     | 103    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 19:12 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-005

**Client Sample ID:** 13218-MW-3D  
**Collection Date:** 8/6/2013 12:45:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | 530    | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,1,2-Trichloroethane                | 17     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,1-Dichloroethane                   | 280    | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| 1,1-Dichloroethene                   | 870    | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,2-Dichloroethane                   | 410    | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Acetone                              | 100    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Chloroethane                         | 11     | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Chloroform                           | 360    | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| cis-1,2-Dichloroethene               | 2900   | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Freon-113                            | 130    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| m,p-Xylene                           | 7.3    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Methylcyclohexane                    | 51     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Methylene chloride                   | 27     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| o-Xylene                             | 20     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-005

**Client Sample ID:** 13218-MW-3D  
**Collection Date:** 8/6/2013 12:45:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Tetrachloroethene                    | 2900   | 100             |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| Toluene                              | 26     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| trans-1,2-Dichloroethene             | 63     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Trichloroethene                      | 4800   | 500             |      | ug/L             | 179620  | 100             | 08/13/2013 00:48 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Vinyl chloride                       | 280    | 40              |      | ug/L             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| Surr: 4-Bromofluorobenzene           | 97.7   | 64.6-123        |      | %REC             | 179620  | 100             | 08/13/2013 00:48 | GK      |
| Surr: 4-Bromofluorobenzene           | 110    | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Surr: 4-Bromofluorobenzene           | 96.5   | 64.6-123        |      | %REC             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| Surr: Dibromofluoromethane           | 103    | 76.6-133        |      | %REC             | 179620  | 20              | 08/13/2013 13:38 | GK      |
| Surr: Dibromofluoromethane           | 99.4   | 76.6-133        |      | %REC             | 179620  | 100             | 08/13/2013 00:48 | GK      |
| Surr: Dibromofluoromethane           | 110    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Surr: Toluene-d8                     | 97.6   | 77.8-120        |      | %REC             | 179620  | 100             | 08/13/2013 00:48 | GK      |
| Surr: Toluene-d8                     | 101    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 19:39 | GK      |
| Surr: Toluene-d8                     | 99.3   | 77.8-120        |      | %REC             | 179620  | 20              | 08/13/2013 13:38 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-006

**Client Sample ID:** 13218-MW-3  
**Collection Date:** 8/6/2013 12:57:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | 470    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,1,2-Trichloroethane                | 25     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,1-Dichloroethane                   | 320    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| 1,1-Dichloroethene                   | 1600   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,2-Dichloroethane                   | 660    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Acetone                              | 390    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Benzene                              | 7.0    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Chloroform                           | 700    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| cis-1,2-Dichloroethene               | 2300   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Freon-113                            | 180    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Methylcyclohexane                    | 22     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Methylene chloride                   | 6.3    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| o-Xylene                             | 7.0    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |

**Qualifiers:**

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-006

**Client Sample ID:** 13218-MW-3  
**Collection Date:** 8/6/2013 12:57:00 PM  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Tetrachloroethene                    | 2900   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Toluene                              | 13     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| trans-1,2-Dichloroethene             | 120    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Trichloroethene                      | 4800   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Vinyl chloride                       | 230    | 100             |      | ug/L             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Surr: 4-Bromofluorobenzene           | 97.5   | 64.6-123        |      | %REC             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Surr: 4-Bromofluorobenzene           | 109    | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Surr: Dibromofluoromethane           | 102    | 76.6-133        |      | %REC             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Surr: Dibromofluoromethane           | 107    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 20:07 | GK      |
| Surr: Toluene-d8                     | 98.3   | 77.8-120        |      | %REC             | 179620  | 50              | 08/13/2013 12:39 | GK      |
| Surr: Toluene-d8                     | 102    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 20:07 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-007

**Client Sample ID:** 13218-DUP  
**Collection Date:** 8/6/2013  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | 450    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,1,2-Trichloroethane                | 21     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,1-Dichloroethane                   | 320    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| 1,1-Dichloroethene                   | 1600   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,2-Dichloroethane                   | 670    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Acetone                              | 290    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Benzene                              | 6.6    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Chloroform                           | 720    | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| cis-1,2-Dichloroethene               | 2300   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Freon-113                            | 150    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Methylcyclohexane                    | 17     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Methylene chloride                   | 5.6    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| o-Xylene                             | 6.5    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-007

**Client Sample ID:** 13218-DUP  
**Collection Date:** 8/6/2013  
**Matrix:** Groundwater

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Tetrachloroethene                    | 2900   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Toluene                              | 11     | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| trans-1,2-Dichloroethene             | 110    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Trichloroethene                      | 4900   | 250             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Vinyl chloride                       | 230    | 100             |      | ug/L             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Surr: 4-Bromofluorobenzene           | 96.6   | 64.6-123        |      | %REC             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Surr: 4-Bromofluorobenzene           | 109    | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Surr: Dibromofluoromethane           | 105    | 76.6-133        |      | %REC             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Surr: Dibromofluoromethane           | 110    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 20:34 | GK      |
| Surr: Toluene-d8                     | 98.7   | 77.8-120        |      | %REC             | 179620  | 50              | 08/13/2013 13:08 | GK      |
| Surr: Toluene-d8                     | 101    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 20:34 | GK      |

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

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

**Analytical Environmental Services, Inc**
**Date:** 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-008

**Client Sample ID:** 13218-RINSE  
**Collection Date:** 8/6/2013 11:35:00 AM  
**Matrix:** Aqueous

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,1-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,1-Dichloroethene                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Chloroform                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| cis-1,2-Dichloroethene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |

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

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

## Analytical Environmental Services, Inc

Date: 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-008

**Client Sample ID:** 13218-RINSE  
**Collection Date:** 8/6/2013 11:35:00 AM  
**Matrix:** Aqueous

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Toluene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| trans-1,2-Dichloroethene             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Trichloroethene                      | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Vinyl chloride                       | BRL    | 2.0             |      | ug/L             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Surr: 4-Bromofluorobenzene           | 96.6   | 64.6-123        |      | %REC             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Surr: Dibromofluoromethane           | 107    | 76.6-133        |      | %REC             | 179620  | 1               | 08/10/2013 15:54 | GK      |
| Surr: Toluene-d8                     | 98.2   | 77.8-120        |      | %REC             | 179620  | 1               | 08/10/2013 15:54 | GK      |

**Qualifiers:**

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

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

## Analytical Environmental Services, Inc

Date: 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-009

**Client Sample ID:** TRIPBLANK  
**Collection Date:** 8/7/2013  
**Matrix:** Aqueous

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| 1,1,1-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,1,2,2-Tetrachloroethane            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,1,2-Trichloroethane                | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,1-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,1-Dichloroethene                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2,4-Trichlorobenzene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2-Dibromo-3-chloropropane          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2-Dibromoethane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2-Dichloroethane                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,2-Dichloropropane                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,3-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 1,4-Dichlorobenzene                  | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 2-Butanone                           | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 2-Hexanone                           | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| 4-Methyl-2-pentanone                 | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Acetone                              | BRL    | 50              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Benzene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Bromodichloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Bromoform                            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Bromomethane                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Carbon disulfide                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Carbon tetrachloride                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Chlorobenzene                        | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Chloroethane                         | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Chloroform                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Chloromethane                        | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| cis-1,2-Dichloroethene               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| cis-1,3-Dichloropropene              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Cyclohexane                          | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Dibromochloromethane                 | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Dichlorodifluoromethane              | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Ethylbenzene                         | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Freon-113                            | BRL    | 10              |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Isopropylbenzene                     | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| m,p-Xylene                           | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Methyl acetate                       | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Methyl tert-butyl ether              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Methylcyclohexane                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Methylene chloride                   | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| o-Xylene                             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |

**Qualifiers:**

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

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

## Analytical Environmental Services, Inc

Date: 14-Aug-13

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Lab ID:** 1308512-009

**Client Sample ID:** TRIPBLANK  
**Collection Date:** 8/7/2013  
**Matrix:** Aqueous

| Analyses                             | Result | Reporting Limit | Qual | Units            | BatchID | Dilution Factor | Date Analyzed    | Analyst |
|--------------------------------------|--------|-----------------|------|------------------|---------|-----------------|------------------|---------|
| <b>TCL VOLATILE ORGANICS SW8260B</b> |        |                 |      | <b>(SW5030B)</b> |         |                 |                  |         |
| Styrene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Tetrachloroethene                    | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Toluene                              | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| trans-1,2-Dichloroethene             | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| trans-1,3-Dichloropropene            | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Trichloroethene                      | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Trichlorofluoromethane               | BRL    | 5.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Vinyl chloride                       | BRL    | 2.0             |      | ug/L             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Surr: 4-Bromofluorobenzene           | 102    | 64.6-123        |      | %REC             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Surr: Dibromofluoromethane           | 102    | 76.6-133        |      | %REC             | 179620  | 1               | 08/09/2013 11:53 | GK      |
| Surr: Toluene-d8                     | 102    | 77.8-120        |      | %REC             | 179620  | 1               | 08/09/2013 11:53 | 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.

Sample/Cooler Receipt Checklist

Client ERJ Work Order Number BOF512

Checklist completed by [Signature] Date 8/7/13

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.

\\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample\_Cooler\_Receipt\_Checklist

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Workorder:** 1308512

**ANALYTICAL QC SUMMARY REPORT****BatchID: 179620**

|                             |                                                |           |           |             |                        |                                  |                        |             |      |           |      |
|-----------------------------|------------------------------------------------|-----------|-----------|-------------|------------------------|----------------------------------|------------------------|-------------|------|-----------|------|
| Sample ID: <b>MB-179620</b> | Client ID:                                     |           |           |             | Units: <b>ug/L</b>     | Prep Date: <b>08/09/2013</b>     | Run No: <b>249648</b>  |             |      |           |      |
| SampleType: <b>MBLK</b>     | TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b> |           |           |             | BatchID: <b>179620</b> | Analysis Date: <b>08/09/2013</b> | Seq No: <b>5234198</b> |             |      |           |      |
| Analyte                     | Result                                         | RPT Limit | SPK value | SPK Ref Val | %REC                   | Low Limit                        | High Limit             | RPD Ref Val | %RPD | RPD Limit | Qual |

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

|                    |         |                                                |   |                                             |   |                                                    |
|--------------------|---------|------------------------------------------------|---|---------------------------------------------|---|----------------------------------------------------|
| <b>Qualifiers:</b> | >       | 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:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Workorder:** 1308512

**ANALYTICAL QC SUMMARY REPORT****BatchID: 179620**

| Sample ID: <b>MB-179620</b> |        | Client ID:                                     |           | Units: <b>ug/L</b>     |      | Prep Date: <b>08/09/2013</b>     |            | Run No: <b>249648</b>  |      |           |      |
|-----------------------------|--------|------------------------------------------------|-----------|------------------------|------|----------------------------------|------------|------------------------|------|-----------|------|
| SampleType: <b>MBLK</b>     |        | TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b> |           | BatchID: <b>179620</b> |      | Analysis Date: <b>08/09/2013</b> |            | Seq No: <b>5234198</b> |      |           |      |
| Analyte                     | Result | RPT Limit                                      | SPK value | SPK Ref Val            | %REC | Low Limit                        | High Limit | RPD Ref Val            | %RPD | RPD Limit | Qual |
| cis-1,2-Dichloroethene      | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| cis-1,3-Dichloropropene     | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Cyclohexane                 | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Dibromochloromethane        | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Dichlorodifluoromethane     | BRL    | 10                                             |           |                        |      |                                  |            |                        |      |           |      |
| Ethylbenzene                | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Freon-113                   | BRL    | 10                                             |           |                        |      |                                  |            |                        |      |           |      |
| Isopropylbenzene            | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| m,p-Xylene                  | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Methyl acetate              | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Methyl tert-butyl ether     | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Methylcyclohexane           | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Methylene chloride          | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| o-Xylene                    | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Styrene                     | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Tetrachloroethene           | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Toluene                     | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| trans-1,2-Dichloroethene    | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| trans-1,3-Dichloropropene   | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Trichloroethene             | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Trichlorofluoromethane      | BRL    | 5.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Vinyl chloride              | BRL    | 2.0                                            |           |                        |      |                                  |            |                        |      |           |      |
| Surr: 4-Bromofluorobenzene  | 52.31  | 0                                              | 50.00     |                        | 105  | 64.6                             | 123        |                        |      |           |      |
| Surr: Dibromofluoromethane  | 55.96  | 0                                              | 50.00     |                        | 112  | 76.6                             | 133        |                        |      |           |      |
| Surr: Toluene-d8            | 51.03  | 0                                              | 50.00     |                        | 102  | 77.8                             | 120        |                        |      |           |      |

|                    |         |                                                |   |                                             |   |                                                    |
|--------------------|---------|------------------------------------------------|---|---------------------------------------------|---|----------------------------------------------------|
| <b>Qualifiers:</b> | >       | 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:** Environmental Planning Specialists, Inc.  
**Project Name:** Capitol Adhesives  
**Workorder:** 1308512

**ANALYTICAL QC SUMMARY REPORT****BatchID: 179620**

|                              |                                                |           |           |             |      |                        |                                  |                        |      |           |      |
|------------------------------|------------------------------------------------|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: <b>LCS-179620</b> | Client ID:                                     |           |           |             |      | Units: <b>ug/L</b>     | Prep Date: <b>08/09/2013</b>     | Run No: <b>249648</b>  |      |           |      |
| SampleType: <b>LCS</b>       | TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b> |           |           |             |      | BatchID: <b>179620</b> | Analysis Date: <b>08/09/2013</b> | Seq No: <b>5234228</b> |      |           |      |
|                              |                                                |           |           |             |      |                        |                                  |                        |      |           |      |
| Analyte                      | Result                                         | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit              | High Limit                       | RPD Ref Val            | %RPD | RPD Limit | Qual |

|                            |       |     |       |  |      |      |     |  |  |  |  |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene         | 48.26 | 5.0 | 50.00 |  | 96.5 | 61.1 | 142 |  |  |  |  |
| Benzene                    | 50.52 | 5.0 | 50.00 |  | 101  | 73.5 | 130 |  |  |  |  |
| Chlorobenzene              | 45.34 | 5.0 | 50.00 |  | 90.7 | 72.4 | 123 |  |  |  |  |
| Toluene                    | 47.55 | 5.0 | 50.00 |  | 95.1 | 73.6 | 130 |  |  |  |  |
| Trichloroethene            | 41.36 | 5.0 | 50.00 |  | 82.7 | 70   | 135 |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 60.30 | 0   | 50.00 |  | 121  | 64.6 | 123 |  |  |  |  |
| Surr: Dibromofluoromethane | 52.01 | 0   | 50.00 |  | 104  | 76.6 | 133 |  |  |  |  |
| Surr: Toluene-d8           | 54.42 | 0   | 50.00 |  | 109  | 77.8 | 120 |  |  |  |  |

|                                  |                                                |           |           |             |      |                        |                                  |                        |      |           |      |
|----------------------------------|------------------------------------------------|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: <b>1308645-002AMS</b> | Client ID:                                     |           |           |             |      | Units: <b>ug/L</b>     | Prep Date: <b>08/09/2013</b>     | Run No: <b>249648</b>  |      |           |      |
| SampleType: <b>MS</b>            | TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b> |           |           |             |      | BatchID: <b>179620</b> | Analysis Date: <b>08/09/2013</b> | Seq No: <b>5234208</b> |      |           |      |
| Analyte                          | Result                                         | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit              | High Limit                       | RPD Ref Val            | %RPD | RPD Limit | Qual |

|                            |       |     |       |  |      |      |     |  |  |  |  |
|----------------------------|-------|-----|-------|--|------|------|-----|--|--|--|--|
| 1,1-Dichloroethene         | 55.18 | 5.0 | 50.00 |  | 110  | 60   | 168 |  |  |  |  |
| Benzene                    | 60.70 | 5.0 | 50.00 |  | 121  | 66.6 | 148 |  |  |  |  |
| Chlorobenzene              | 56.17 | 5.0 | 50.00 |  | 112  | 71.9 | 135 |  |  |  |  |
| Toluene                    | 56.67 | 5.0 | 50.00 |  | 113  | 68   | 149 |  |  |  |  |
| Trichloroethene            | 47.25 | 5.0 | 50.00 |  | 94.5 | 71.1 | 154 |  |  |  |  |
| Surr: 4-Bromofluorobenzene | 60.73 | 0   | 50.00 |  | 121  | 64.6 | 123 |  |  |  |  |
| Surr: Dibromofluoromethane | 49.08 | 0   | 50.00 |  | 98.2 | 76.6 | 133 |  |  |  |  |
| Surr: Toluene-d8           | 53.08 | 0   | 50.00 |  | 106  | 77.8 | 120 |  |  |  |  |

|                                   |                                                |           |           |             |      |                        |                                  |                        |      |           |      |
|-----------------------------------|------------------------------------------------|-----------|-----------|-------------|------|------------------------|----------------------------------|------------------------|------|-----------|------|
| Sample ID: <b>1308645-002AMSD</b> | Client ID:                                     |           |           |             |      | Units: <b>ug/L</b>     | Prep Date: <b>08/09/2013</b>     | Run No: <b>249648</b>  |      |           |      |
| SampleType: <b>MSD</b>            | TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b> |           |           |             |      | BatchID: <b>179620</b> | Analysis Date: <b>08/09/2013</b> | Seq No: <b>5234209</b> |      |           |      |
| Analyte                           | Result                                         | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit              | High Limit                       | RPD Ref Val            | %RPD | RPD Limit | Qual |

|                    |       |     |       |  |     |      |     |       |       |      |  |
|--------------------|-------|-----|-------|--|-----|------|-----|-------|-------|------|--|
| 1,1-Dichloroethene | 55.43 | 5.0 | 50.00 |  | 111 | 60   | 168 | 55.18 | 0.452 | 18.6 |  |
| Benzene            | 59.09 | 5.0 | 50.00 |  | 118 | 66.6 | 148 | 60.70 | 2.69  | 20   |  |

|                    |         |                                                |   |                                             |   |                                                    |
|--------------------|---------|------------------------------------------------|---|---------------------------------------------|---|----------------------------------------------------|
| <b>Qualifiers:</b> | >       | 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: Environmental Planning Specialists, Inc.  
Project Name: Capitol Adhesives  
Workorder: 1308512

ANALYTICAL QC SUMMARY REPORT

BatchID: 179620

|                            |                                         |           |           |             |      |                 |                           |                 |      |           |      |
|----------------------------|-----------------------------------------|-----------|-----------|-------------|------|-----------------|---------------------------|-----------------|------|-----------|------|
| Sample ID: 1308645-002AMSD | Client ID:                              |           |           |             |      | Units: ug/L     | Prep Date: 08/09/2013     | Run No: 249648  |      |           |      |
| SampleType: MSD            | TestCode: TCL VOLATILE ORGANICS SW8260B |           |           |             |      | BatchID: 179620 | Analysis Date: 08/09/2013 | Seq No: 5234209 |      |           |      |
| Analyte                    | Result                                  | RPT Limit | SPK value | SPK Ref Val | %REC | Low Limit       | High Limit                | RPD Ref Val     | %RPD | RPD Limit | Qual |
| Chlorobenzene              | 53.78                                   | 5.0       | 50.00     |             | 108  | 71.9            | 135                       | 56.17           | 4.35 | 20        |      |
| Toluene                    | 56.10                                   | 5.0       | 50.00     |             | 112  | 68              | 149                       | 56.67           | 1.01 | 20        |      |
| Trichloroethene            | 47.89                                   | 5.0       | 50.00     |             | 95.8 | 71.1            | 154                       | 47.25           | 1.35 | 20        |      |
| Surr: 4-Bromofluorobenzene | 59.83                                   | 0         | 50.00     |             | 120  | 64.6            | 123                       | 60.73           | 0    | 0         |      |
| Surr: Dibromofluoromethane | 52.40                                   | 0         | 50.00     |             | 105  | 76.6            | 133                       | 49.08           | 0    | 0         |      |
| Surr: Toluene-d8           | 53.56                                   | 0         | 50.00     |             | 107  | 77.8            | 120                       | 53.08           | 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 |   |                                                    |

## EPS Project: Capitol Adhesives

**Date:** 8.6.13

Well ID: MW-3

Well ID: MW-3  
Sampling Performed By: G. Henry / W. Grosse

**Well Construction:**

Well Construction: 2" flush  
Well Labeled: No  
Well Cap: Yes  
Well Locked:

Well Labeled: 22

Well Labeled: 20 Well Cap: yes Well Locked: \_\_\_\_\_  
Well depth from TOC: 19.55

**Well depth from TOC:**

Well depth from TOC: 14.55'

Well Diameter (in): 21"

Well Diameter (in):

Well Diameter (in): 11 1/2

Height (Ht) of water in well (Well depth from TOC - Static level from TOC)

Volume of water in well (Ht x 16 for 2" / 653 for 4" ) (1 160 for 6").

**Purifying Method:**

**Sample Method:**

sample mention: smen

Time

Volume  
(gal)

Temp (°C)

H<sub>2</sub>

Cond. mS/cm

 $\text{DO (mg/l)}$ 

**Turbidity**  
(NTU)

OPD (mV)

1

Sample ID: 13218-MW-3

1757



# Monitoring Wet. Sampling Form

Sample ID: 13218-MW-3D

Time Collected: 1245

Technician Signature

# Monitoring Wetland Sampling Form

[illegible]

Sample ID: 13217-MW-4

Time Collected: 1322

Technician Signature





Technician Signature

# Monitoring Water Sampling Form

[illegible]

Sample ID: 13218-NW-15

Time Collected:

Technician Signature \_\_\_\_\_

## EPS Project: Capitol Adhesives

Date: 8-5-13

Well ID: MW-16

Dr. H. B. C. C.

**Well ID:** MW-16  
**Sampling Performed By:**

Henry, B. Cray  
"Eugene" went

5: Larry, B. Crowe  
2" Freshmont  
Well Cap: Yes Well Locked:

File \_\_\_\_\_

**Field Conditions:**

Sunny 80°

**Well Construction:**

2" Eucaly mont

|           |     |              |
|-----------|-----|--------------|
| Well Cap: | Yes | Well Locked: |
|-----------|-----|--------------|

✓

## General Conditions

Location of Well: Good

**Well depth from TOC:**

25.10

---

## Method

Depth to Water \_\_\_\_\_

Method of measure: \_\_\_\_\_

from TOC: 2.0

Height (Ht) of water

depth from TOC - Static level from TOC)  
for 2")(.653 for 4" )(1.469 for 6"):

3, 6

23-03

Three Well Volumes (na)

### Purging Method:

our Snow / Peri Long

Time @ S  
Sample

**@ Start of Purge:**

1505

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08-26

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Sample ID: 13217-MW-HC

Time Collected: 1635-

Technician Signature

**APPENDIX D**

**INJECTION WELL OPERATING PERMIT  
APPLICATION**

STATE OF GEORGIA  
DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION  
WATERSHED PROTECTION BRANCH

**INJECTION WELL OPERATING PERMIT APPLICATION**

REGULATORY AGENCY:

Regulatory Support Program  
Watershed Protection Branch  
Environmental Protection Division  
Georgia Department of Natural Resource  
Suite 1062 East Tower  
2 Martin Luther King Jr. Dr.  
Atlanta, Georgia 30334

LEGAL AUTHORITY:

Georgia Department of Natural Resources  
Rules for Underground Injection Control,  
Chapter 391-3-6-.13  
Georgia Water Quality Control Act  
O.C.G.A. 12-5-20 et. seq.

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FACILITY DATA

Capitol USA

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Business/Corporate Name

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|                                   |          |                                |
|-----------------------------------|----------|--------------------------------|
| 300 Cross Plains Blvd             | Dalton   | Whitfield County               |
| Street                            | City     | County                         |
| Georgia                           | 30721    | 423-755--0870 (W. Craig Baker) |
| State                             | Zip Code | Telephone Number               |
| 34 40' 27.63" N    84 58' 9.90" W |          |                                |

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Location: Latitude and Longitude (Degrees, Minutes, Seconds)

Manufacturing, water-based and organic solvent-based adhesives

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Type of Industry

CEA, LLC., W. Craig Baker

---

Name of Owner or Authorized Representative

Vice President, CEA, LLC

---

Title of Authorized Representative    Number if Different from Above

Is the underground injection part of a corrective action or remediation  
plan to be included in another EPD permit? If so, please explain.  
Georgia Voluntary Remediation Program

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Revised July 2010

Page Two  
Application

INJECTION WELL DATA

DRILLER:

Not applicable, sub slab injection points

Ga. Licensed Water Well Contractor  
or Bonded Environmental Drilling Company

Lic. Num.  
Bond Num.

Street

City

County

State

Zip Code

Telephone Number

How many injection wells or devices does this application include?  
Please supply number here: 1

Are the wells or devices proposed or existing? Proposed

Classification of injection well(s) or devices (please circle):  
I, II, III, IV (prohibited), V

INJECTION WELL CONSTRUCTION

Well Depth 2.5' Borehole Dia. 4" Csg. Depth 2.5'

Csg. Dia. 2" Screen Type 0.02" Slot Screen Dia. 2"

Screened Interval: from 0.5' to 2.5'

Grout Type Bentonite/Vinyl ester polymer grout (seal concrete, see attachment)

Grouted Interval: from 0' to 0.5' Grout Thick. 0.5'

Csg. Material (please check material used):

☒ PVC ☐ Black Steel ☐ Galvanized Steel ☐ Polybutylene

☐ Polyethylene ☐ Black Latex ☐ Fiberglass ☐ Stainless Steel

☐ Other

Please provide a detailed diagram of the injection well(s) or device(s)  
showing the items described above.

INJECTION SYSTEM DATA

Type of Injection Fluid: Chemical Oxidant, Persulfate (RengenOx, see MSDS)

INJECTION SYSTEM DATA (CONT.)

Source of Injected Fluid: RegenOx Stock Solution (see MSDS)

Purpose of Injection: Oxidation of chlorinated solvents

Proposed Injection Rate: 1.3 maximum daily gallons per minute per well  
(SCFM for air)

Proposed Injection Volume: 620 maximum daily gallons per well  
(SCFM for air)

Proposed Injection Pressure: Gravity Feed, or low PSI if necessary  
maximum daily lbs./sq. inch (psi)

Please include the following with the application:

- Attachment D a. A chemical analysis of the injected fluid. The analysis must include all constituents specified in the currently applicable Georgia Rules for Safe Drinking Water.
- Attachment F b. A detailed diagram showing the engineering layout of the injection equipment and all piping associated with the system.
- VRP Application c. A comprehensive subsurface report, prepared by or directly supervised by a Georgia Professional Geologist, including all the geological and hydrogeological parameters of the site.
- NA d. A notarized statement may be required from the applicable local government stating that the injection project is consistent with the local land use plan or zoning requirements.
- Attachment F e. A detailed map orienting the injection well(s) and any other wells to two (2) nearby reference points such as roads, streams or nearby structures, etc. Please clearly mark the distances from the wells to the reference points.
- Attachment H/I f. The approved Corrective Action Plan for the UIC permit file.

The applicant specifically grants to EPD or any authorized agent of the Director the right of entry and travel upon the injection well site for the purpose of conducting necessary compliance inspections.

Certification:

I certify under the penalty of law that I have examined and am familiar with the information contained in this document and all attachments and that, based on the inquiry of the individuals responsible for the data, I believe that the information is true, accurate and complete. I am aware that there are penalties for submitting false information, including the possibility of fine and imprisonment.

W. Craig Baker, Vice President, CEA, LLC.

Owner or Authorized Representative

Signature

8-26-13

Date Signed