

Prepared for:

CEA, LLC
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**FIRST SEMIANNUAL VRP PROGRESS REPORT
CAPITOL USA – DALTON FACILITY
Dalton, Georgia**

Prepared by:



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April, 2012

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

Kirk Kessler, P.G.
Principal

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

Timmerly Bullman, P.E.
Senior Environmental Engineer

April 2012

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CAPITOL USA – DALTON FACILITY
Dalton, Georgia
TABLE OF CONTENTS**

1	INTRODUCTION	2
2	VRP PROJECT MANAGEMENT	3
2.1	Financial Assurance.....	3
2.2	Professional Geologist Oversight.....	3
2.3	Comment Letters	3
2.3.1	March 31, 2011 Comment Letter.....	3
2.3.2	October 3, 2011 Comment Letter.....	4
2.4	Milestone Schedule	4
2.5	Conceptual Site Model.....	4
3	MONITORING WELL INSTALLATION	5
3.1	Actions Completed.....	5
3.2	Upcoming Actions.....	5
3.2.1	Installation Plan for MW-1R	5
3.2.2	Installation Plan for MW-3B.....	6
4	SEMIANNUAL GROUNDWATER SAMPLING.....	8
4.1	Actions Completed.....	8
4.1.1	Water Level Measurements	8
4.1.2	Methods	8
4.1.3	Results	9
4.1.4	Groundwater Modelling	10
4.2	Upcoming Actions.....	11
5	SOURCE AREA EVALUATION.....	12
5.1	Actions Completed.....	12
5.2	Upcoming Actions.....	12
6	HUMAN HEALTH RISK EVALUATION.....	13
6.1	Vapor Intrusion	13
6.2	Upcoming Actions.....	13
7	REFERENCES	14

LIST OF TABLES

Table 1	Delineation Standards (Type 1 RRSs)
Table 2	Depth to Groundwater Measurements (2011-2012)
Table 3	Analytical Results for Constituents Detected in Groundwater (mg/L)
Table 4	MNA Parameters (February 2012)

LIST OF FIGURES

Figure 1	Projected Milestone Schedule
Figure 2	Proposed Monitoring Well Locations
Figure 3	Potentiometric Surface Map of Surficial Aquifer (Feb. 7, 2012)
Figure 4	Groundwater Total Chlorinated Ethenes (February 2012)
Figure 5	Groundwater Total Chlorinated Ethanes (February 2012)
Figure 6	Chlorinated Ethane Modeling Results (February 2012)
Figure 7	Chlorinated Ethene Modeling Results (February 2012)

LIST OF APPENDICES

Appendix A	Professional Geologist Summary of Hours
Appendix B	Risk Reduction Standard Calculations
Appendix C	Conceptual Site Model
Appendix D	Laboratory Data Report and Well Forms
Appendix E	Groundwater Constituent Figures

PROFESSIONAL GEOLOGIST CERTIFICATION

"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.

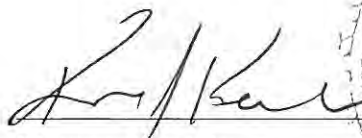
The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Kirk Kessler GA000685

Printed Name and GA PE/PG Number

4/3/2012

Date



Signature and Stamp



1 INTRODUCTION

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, this document is the first Semiannual Progress Report (Progress Report) for the Capitol Site.

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 Progress Report summarizes (by task) what actions have been taken since the VIRP was submitted (May 2011) and the upcoming activities.

2 VRP PROJECT MANAGEMENT

2.1 Financial Assurance

Per the requirements of the program, CEA provided a cost estimate and proof of financial assurance in the form of a Letter of Credit issued by First Tennessee Bank.

2.2 Professional Geologist Oversight

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

2.3 Comment Letters

Per the requirements of the EPD's acceptance letter, CEA is to respond to two comment letters from the EPD: March 31, 2011 (Comments 12-16) and October 3, 2011.

2.3.1 March 31, 2011 Comment Letter

Comment 12: Per the EPD's comment, a deep well into bedrock in close proximity to the MW-3/MW-3D is planned (see Section 3).

Comment 13: The EPD has recommended installation of a well into bedrock near MW-15 to address the concern of contamination migrating in bedrock. However, it is prudent to install the bedrock well near MW-3/MW-3D first. The results from the bedrock well at MW-3/MW-3D will be evaluated to determine whether or not it is necessary to install a bedrock well near MW-15.

Comment 14: Per the EPD's comment, a well will be installed between MW-15 and MW-16 (see Section 3).

Comment 15: Per the EPD's comment, plan-view maps specifying the concentrations of individual regulated substances in groundwater are provided in the figures associated with Section 4.

Comment 16: The EPD recommends double-casing any wells installed into bedrock and the use of rock coring during installation. These recommendations are taken into consideration for the design of the bedrock well to be placed near MW-3/MW-3D (see Section 3).

2.3.2 October 3, 2011 Comment Letter

Comment 1 concerns the identification of source material and related issues at the Site. These comments were addressed during two meetings with the EPD.

Comment 2 concerns the proposed Type 1 risk reduction standards (RRSs) for soil and groundwater. A response to each comment is as follows:

- a) Per the EPD's comments, the notification concentration (NC) value for cyclohexane in soil has been changed to 20 mg/kg, resulting in a revised Type 1 soil RRS of 20 mg/kg.
- b) Per the EPD's comment, the Type 1 groundwater and soil RRSs for cis-1,2-dichloroethene have been revised to 7 mg/kg and 0.07 mg/L, respectively.
- c) If additional constituents of concern are detected at the Site or if certification to a different RRS is desired, additional RRS values will be proposed to the EPD in a semiannual Progress Report.

The revised RRS calculations are shown in Appendix B and a summary of the revised Type 1 RRSs are presented in Table 1.

2.4 Milestone Schedule

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

2.5 Conceptual Site Model

The Conceptual Site Model (CSM) has been updated with data collected from a recent groundwater sampling event and is included in Appendix C. Although updated with new data, the site characterization presented in the CSM and the conclusions derived from it have not changed.

3 MONITORING WELL INSTALLATION

3.1 Actions Completed

As mentioned in the VIRP, wells MW-1 and MW-1D are no longer operable and CEA plans to replace these wells. The wells were placed in the location where it was originally believed that the catastrophic spill occurred. However, as information discovered later indicated that the spill was actually located north of the AST area, the locations of MW-1 and MW-1D are not optimal for evaluating site conditions. Thus, different locations for the replacement wells have been proposed. In a recent conversations with the EPD the locations of the proposed wells have been agreed upon.

3.2 Upcoming Actions

The replacement wells will be installed according to the methodology specified in this section and at the locations shown on Figure 2.

3.2.1 Installation Plan for MW-1R

A residuum well will be installed between MW-15 and MW-16 in the area circled on Figure 2. Site constraints and high traffic areas will be considered when selecting the precise well location. The well will be of similar construction as MW-15 and MW-16. A 2-inch diameter monitoring well will be installed in accordance with EPA Region 4 *Field Branches Quality System and Technical Procedures* (SESDGUID-101-RO, February 2008).

A 2-inch diameter Schedule 40 PVC monitoring well will be installed to a depth of 25 feet inside an approximately 6-inch diameter borehole. A fifteen-foot 0.010-inch slotted screen will be used. A granular sand filter pack (appropriate for the specific screen) will be installed a minimum of 6 inches below the screen and 2 feet above the top of the screen. A bentonite pellet seal, consisting of 2 feet of dry bentonite, will be placed above the filter pack and allowed to hydrate for at least 30 minutes prior to installing the bentonite/cement grout in the well annulus, which will be pressure grouted through a tremmie pipe up to approximately 2 feet below the ground surface.

Once the annular grout has cured for a minimum of 24 hours, the well will be completed in a 12-inch diameter flush-mounted well vault within a 3-foot by 3-foot by 4-inch concrete well pad. The well will be developed at least 24 hours after the installation of the well pad in accordance with SESDGUID-101-RO. The well will be developed until it is free of visible sediment, and the pH, temperature, turbidity, and specific conductivity have stabilized.

3.2.2 Installation Plan for MW-3B

A deep bedrock well will be installed near the MW-3/MW-3D well pair. A 2-inch diameter monitoring well will be installed in accordance with EPA Region 4 *Field Branches Quality System and Technical Procedures* (SESDGUID-101-RO, February 2008). Air rotary drilling techniques will be utilized. The well screen will be set in bedrock. The actual depth will be determined during installation.

The well will be triple cased to prevent contaminant migration into the bedrock. An approximately 14-inch outside diameter (OD) bit will be advanced through the overlying residuum soils and a minimum of 1-foot into weathered shale. An 10-inch inside diameter (ID) PVC outer casing will be installed through the augers and grouted in place by pressure grouting a cement/bentonite grout through a tremmie pipe and grout shoe attached to the base of the outer casing. The annulus will be grouted up to just below the ground surface. The grout will be allowed to cure prior to advancing the borehole.

An approximately 10-inch outside diameter (OD) bit will be advanced through the weathered shale and three to five feet into competent bedrock. A 6-inch inside diameter (ID) PVC outer casing will be installed through the augers and grouted in place by pressure grouting a cement/bentonite grout through a tremmie pipe and grout shoe attached to the base of the outer casing. The annulus will be grouted up to just below the ground surface. The grout will be allowed to cure prior to advancing the borehole into bedrock.

An approximately 6-inch OD bit will be advanced through the grout plug at the base of the inner casing to approximately 20 feet below the bedrock interface, ensuring that the top of the screened interval is at least as deep as the bottom of the outer casing.

Prior to installing the well, packer testing will be conducted to ensure the screened interval is water bearing. The bottom 10 feet of the borehole will be segregated, and a pump test will be performed to determine the recharge rate, if any. If this section has sufficient recharge, the screened interval will be placed here. If this section does not have sufficient recharge, the packer system will be raised 10 feet, and the pump test will be performed again. If none of the drilled bedrock has sufficient recharge, the boring will be drilled deeper and the pump testing will continue.

Once the interval to be screened has been determined, the boring will be completed with a 2-inch diameter Schedule 40 PVC monitoring well extending above the ground surface. The screen will be between 5 and 15 feet (to be determined during installation) and the preferred screen configuration is number 20 continuous-slot screen. The bottom of the well (below the screen) will be completed with a sump that is at least 3 to 6-feet long. Two centralizers will be installed: one at the bottom sump and the other above the top of the screen. A granular sand filter pack (appropriate for the specific screen) will be installed a minimum of 6 inches below the screen and 2 feet above the top of the screen. A bentonite pellet seal, consisting of 2 feet of dry bentonite, will be placed above the filter pack and allowed to hydrate for at least 30 minutes prior to installing the bentonite/cement grout in the well annulus, which will be pressure grouted through a tremmie pipe up to approximately 2 feet below the ground surface.

Once the annular grout has cured for a minimum of 24 hours, the well will be completed in a 12-inch diameter flush-mounted well vault within a 3-foot by 3-foot by 4-inch concrete well pad. The well will be developed at least 24 hours after the installation of the well pad in accordance with SESDGUID-101-R0. The well will be developed until it is free of visible sediment, and the pH, temperature, turbidity, and specific conductivity have stabilized.

4 SEMIANNUAL GROUNDWATER SAMPLING

4.1 Actions Completed

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
 - o Of all wells for volatile organic compounds (VOCs)
 - o 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)
 - o Of specific wells (MW-3, MW-3D, MW-4, MW-5, MW-15, MW-1R and MW-16) for VOCs

In February 2012, the first groundwater sampling event was conducted. This “annual” event consisted of monitoring all wells for VOCs and specific wells for MNA parameters.

4.1.1 Water Level Measurements

Prior to purging the wells, the depth to water was determined for each well. Groundwater elevations were calculated and are shown on Table 2 and Figure 3 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 nine wells: MW-2, MW-2D, MW-4, MW-5, MW-7, MW-8, MW-9, MW-14, and MW-15). This indicates that there is not an unsaturated zone in this area. Although the groundwater table is at or above the ground surface, there is no or minimal pooling of groundwater at the surface. Table 2 displays the depth to groundwater measurements from 2011 and 2012. See the Conceptual Site Model (Appendix C) for more information about the water table conditions observed at the Site.

4.1.2 Methods

Well purging was accomplished by low-stress purging techniques using a peristaltic pump with Teflon tubing. All downhole equipment was decontaminated prior to the initiation of sampling and after each use before being used at the next sampling location. All decontamination liquids were managed by containerization. Containers were labeled and stored on-Site until disposal arrangements are finalized and the containers properly disposed.

During the sampling episode, sample tubing was slowly lowered into the well and positioned near the middle of the screened interval for all wells, and at least 2 feet above the bottom of the well (to minimize potential disturbance and re-suspension of sediment). Target pump rates were

less than the recharge rate of the well, which was verified throughout purging by periodically gauging the water level. If a drop in water level was noted during purging, the purge rate was adjusted downward to achieve water level stabilization (target drawdown of 0.3 feet or less). Wells were initially purged at a maximum initial rate of 500 milliliters per minute (ml/min), after which adjustments were made based on the drawdown response. If the target drawdown of 0.3 feet or less could not be maintained at low-flow rates, the flow rate was maintained at the lowest achievable rate less than 500 ml/min (100 mL/min, or lower if achievable).

Water quality parameters of pH, temperature, turbidity and conductivity were measured throughout the purging using a Horiba U-53 Water Quality Monitor equipped with a flow-through cell. Purging was considered complete and sampling commenced when the indicator parameters met the following criteria for three consecutive readings:

- pH measurements remained stable within 0.1 Standard Units;
- Specific conductivity varied by no more than 10%;
- Temperature was stable; and
- Turbidity varied no more than 10%, or a constant non-turbid discharge (less than 10 NTUs) was achieved.

In accordance with the U.S. Environmental Protection Agency Region IV Science and Ecosystem Support Division (SESD) Field Branches Quality System and Technical Procedures guidelines (November 2007), groundwater samples were collected using the straw method. The straw method consists of filling the tubing with groundwater using the peristaltic pump then quickly removed from the pump, and a gloved thumb was placed on the tubing to stop the water from draining out. The tubing was then removed from the well and the water was allowed to gravity-drain into sample containers.

Sample containers were provided by the analytical laboratory. Groundwater samples for VOCs analysis were collected in 40-mL glass vials preserved with hydrochloric acid with zero head space, and were prepared and labeled prior to sample collection. The containers for VOC and MNA analysis were placed in a cooler, at 4 C, and maintained under Chain-of-Custody until delivery to the analytical laboratory (Analytical Environmental Services, Inc. of Atlanta, Georgia) for the following analyses: volatile organic compounds (VOC, SW8260B); total organic carbon (SW9606A); sulfide (SW9030B/9034); chloride, nitrate, nitrite, and sulfate (SW9056A); total alkalinity (E310.2); and ethylene and methane (SOP-RSK175).

4.1.3 Results

In February 2012, samples from the eighteen wells at the Site were collected and analyzed for VOCs using Method 8260B. Samples collected from select wells (MW-3, MW-3D, MW-4, and MW-5) were analyzed for MNA parameters (total organic carbon, sulfide, chloride, nitrate, nitrite, sulfate, alkalinity, ethylene and methane). The laboratory data reports are presented in Appendix D.

4.1.3.1 VOC Results

A complete copy of the February 2012 analytical testing results is provided in Appendix D and the results of the detected constituents (along with historical results) are summarized in Table 3. Values that exceed the Type 1 RRS are highlighted in yellow.

Groundwater concentrations of total chlorinated ethenes (tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [DCE], and vinyl chloride [VC]) from the February 2012 sampling event are shown in Figure 4. Similarly, groundwater concentrations of total chlorinated ethanes (1,1,1-Trichloroethane [TCA], 1,1-dichloroethane [DCA], and chloroethane [CA]) are shown in Figure 5. Isoconcentration lines are also shown on these figures indicating that the groundwater exhibits the highest concentrations immediately north of the tanker truck spill area and the plume extends north and northeast of the basin consistent with groundwater flow.

Figures showing the analytical results for individual constituents are included in Appendix E. Constituents in this Appendix include the chlorinated ethenes, chlorinated ethanes, and other constituents that had at least one result that exceeded its Type 1 RRS. These figures demonstrate that the plume has been characterized and delineated horizontally with MW-16 to the north, MW-14 to the east, MW-8 to the south and MW-17 to the west. Vertical delineation has not been demonstrated yet.

The results from the recent groundwater sampling event are generally consistent with the previous sampling events. The constituents detected, the magnitude of the constituents and the size and location of the plume are generally the same as in previous events, indicating a plume that is a steady-state.

4.1.3.2 MNA Parameter Results

MNA parameters were analyzed in samples collected from MW-3, MW-3D, MW-4, and MW-5. The following parameters were analyzed by AES for each of these wells: alkalinity, methane, ethene, chloride, nitrate, nitrite, sulfate, sulfide, and total organic carbon. These laboratory data sheets are presented in Appendix D. Parameters measured in the field during sample collection by EPS included: dissolved oxygen, temperature, pH and Redox potential (ORP), and can be seen in Appendix D. The MNA parameter results are presented in Table 4 along with the concentrations of daughter products. Based on the February 2012 data, the wells within the plume show evidence that reductive dechlorination is occurring.

4.1.4 Groundwater Modelling

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[®] injections. Therefore, the models assume that there is no impact 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 2012 while plotting the results from the February 2012 sampling event. The results for the chlorinated ethane and chlorinated ethene models for 2012 are shown in Figure 6 and 7, respectively. The comparison of the analytical data to the modeling results in 2012 is similar to the 2010 results. Thus, it does not appear necessary to alter the model at this point. The model continues to overestimate the concentrations of the constituents, providing a conservative assessment of future conditions.

4.2 Upcoming Actions

The next groundwater sampling event will be a semi-annual event where samples collected from specific wells (MW-3, MW-3D, MW-4, MW-5, MW-15, and MW-16) are analyzed for VOCs. This sampling event will be conducted during the third quarter of 2012. The new monitoring wells should be installed prior to this sampling event. As such, the two new wells (MW-1R and MW-3B) will be sampled for VOC analysis during the sampling event. It is anticipated that vertical delineation will be demonstrated using the results from the deep bedrock well MW-3B.

5 SOURCE AREA EVALUATION

5.1 Actions Completed

Two meetings have been held with the EPD to discuss the comments that the EPD made concerning source material in the October 3, 2011 letter. Specifically, conversations were had concerning how to define source material, potential remediation options, and the impact of paved areas. CEA is considering the EPD's position and working toward developing a response that will satisfy the EPD's concerns.

5.2 Upcoming Actions

CEA will continue to evaluate the source material issue and will submit a remedial action plan to the EPD in a future Progress Report.

6 HUMAN HEALTH RISK EVALUATION

6.1 Vapor Intrusion

The VIRP stated that the applicability of vapor intrusion modeling for industrial workers would be evaluated in the context of an operating facility (where Occupational Safety and Health Administration [OSHA] worker safety programs may govern). After a detailed review of the situation, it has been determined that OSHA regulations take precedence in evaluating any worker safety issues that may arise due to the possibility of vapor intrusion. EPA's draft *Subsurface Vapor Intrusion Guidance* (EPA, 2002) states that "OSHA and EPA have agreed that OSHA generally will take the lead role in addressing occupational exposures....In general, therefore, EPA does not expect this guidance be used for settings that are primarily occupational." OSHA has the sole jurisdiction over regulating indoor air in the workplace. OSHA has developed and enforces standards that are protective of worker health. Additionally, as many of the constituents found in the groundwater are also used in the facility, it would be infeasible to differentiate between the sources; however, it is reasonable to assume that the concentrations due to vapor intrusion would be minimal compared to the exposure due to the use of chemicals during the manufacturing processes. Notwithstanding the foregoing, CEA will develop a site-specific vapor intrusion model to evaluate the potential risk to industrial workers due to vapor intrusion.

6.2 Upcoming Actions

As discussed above, a site-specific vapor intrusion model will be developed to evaluate the potential risk to industrial workers. The results will be presented in a future Progress Report. Additionally, per the VIRP, the following potential risk scenarios will be evaluated in a future Progress Report:

- Industrial workers exposure to groundwater at the surface.
- Construction and utility workers exposure to physical contact with groundwater, vadose zone soils and/or the solid aquifer matrix.

7 REFERENCES

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- Tri-State Testing & Drilling, LLC (Tri-State). 2004a. Phase II Environmental Investigation. August, 2004.
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TABLES

**Table 1. Delineation Standards (Type 1 RRSs)
for Constituents Detected in Groundwater or Soil
Capitol Adhesives**

Constituent	Groundwater Type 1 RRS (ppm)	Vadose Zone Soil Type 1 RRS (mg/kg)
1,1,1-Trichloroethane	0.2	20
1,1,2-Trichloroethane	0.005	0.5
Freon-113 (1,1,2-Trichloro-1,2,2-trifluoroethane)	1000	24039
1,1-Dichloroethane	4	400
1,1-Dichloroethene	0.007	0.7
1,2-Dichloroethane	0.005	0.5
1,2-Dichloropropane	0.005	0.5
1,4-Dioxane	0.07	7
2-Butanone (MEK)	2	200
Acetone	4	400
Benzene	0.005	0.5
Chloroethane	DL	0.17
Chloroform	0.08	3.9
cis-1,2-Dichloroethene	0.07	7
Cyclohexane	DL	20
Dichloromethane (Methylene chloride)	0.005	0.5
Ethyl benzene	0.7	70
Tetrachloroethene	0.005	0.5
Toluene	1	100
trans-1,2-Dichloroethene	0.1	10
Trichloroethene	0.005	0.5
Freon-11 (Trichlorofluoromethane)	2	200
Vinyl chloride	0.002	0.2

DL - detection limit

* Specified in CAP (WRS 2006)

Capitol Adhesives

Table 2. Depth to Groundwater Measurements 2011-2012

		TOC Elevation (ft msl)	Ground Elevation (ft msl)	Depth to Water (ft btoc)	Potentiometric Elevation (ft msl)	Depth to GW from Ground Surface (ft)
MW-2	4/22/2011	675.33	675.51	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
MW-2D	4/22/2011	674.79	675.36	0		0
	4/29/2011			0		0
	5/6/2011			6.00	674.19	1.17
	2/7/2012			0		0
MW-3	4/22/2011	673.83	673.87	0		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
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			0.40	673.47	0.67
MW-4	4/22/2011	671.38	671.85	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
MW-5	4/22/2011	670.88	670.13	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
MW-6	4/22/2011	674.92	675.28	2.42	672.5	2.78
	4/29/2011			3.82	671.1	4.18
	5/6/2011			3.01	671.91	3.37
	2/7/2012			2.72	672.2	3.08
MW-7	4/22/2011	675.63	674.71	0		0
	4/29/2011			0.32	675.31	-0.6
	5/6/2011			0.87	674.76	-0.05
	2/7/2012			0		0
MW-8	4/22/2011	674.52	674.99	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
MW-9	4/22/2011	675.44	675.80	0		0
	4/29/2011			0		0
	5/6/2011			0.51	-0.51	0.51
	2/7/2012			0		0

Capitol Adhesives

Table 2. Depth to Groundwater Measurements 2011-2012

		TOC Elevation (ft msl)	Ground Elevation (ft msl)	Depth to Water (ft btoc)	Potentiometric Elevation (ft msl)	Depth to GW from Ground Surface (ft)
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			0.70	674.84	0.86
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
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	672.4	3.36
MW-13	4/22/2011	676.70	677.06	1.80	674.9	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	2.6
MW-14	4/22/2011	673.05	673.36	0		0
	4/29/2011			0.45	672.6	0.76
	5/6/2011			0.75	672.3	1.06
	2/7/2012			0		0
MW-15	4/22/2011	670.91	671.33	0		0
	4/29/2011			0		0
	5/6/2011			0		0
	2/7/2012			0		0
MW-16	4/22/2011	669.70	670.24	0.13	669.575	0.665
	4/29/2011			0.45	669.25	0.99
	5/6/2011			0.69	669.01	1.23
	2/7/2012			0.30	669.4	0.84
MW-17	4/22/2011	676.26		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	

Table 3. Analytical Results for Constituents Detected in Groundwater (mg/L)
Capitol Adhesives

Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroet hane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethanes	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	Toluene	trans-1,2- Dichloroeth ene
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	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	0.0072
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	0.085
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
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
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
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
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
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
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	0.41	<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
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
MW-2	2/8/12	<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
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
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
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
MW-2D	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	0.071	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<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	0.099
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	0.14
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	0.12
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	0.0012	0.0052	0.17
MW-3D	7/19/04	3.32	4.72	0.0404	0.0036	8.084	5.4	0.868	0.0022	6.2702	0.0071	0.628	0.128	<0.1	0.0042	0.206		0.038	0.0094			0.0829	0.0523
MW-3D	8/10/05	1.4	1.6	0.032	<0.02	3.032	2.1	0.16	<0.02	2.26	<0.02	0.29	0.067	<0.1	<0.02	0.094		<0.02	<0.02			<0.02	<0.02
MW-3D	6/26/06	1.21	1.25	0.034	0.004	2.498	1.15	0.126	<0.005	1.276	<0.005	0.244	0.068	<0.1	<0.005	0.082		<0.005	<0.005			<0.005	0.017
MW-3D	3/7/07	0.94	1.22	0.04	0.002	2.20	1.74	0.122	<0.01	1.862	<0.005	0.19	0.103	<0.1	<0.005	0.09		<0.005	<0.005			<0.005	0.012
MW-3D	6/26/07	0.694	1.04	0.09900001	0.006	1.84	1.16	0.151	<0.01	1.311	<0.005	0.256	0.06500001	<0.1	<0.005	0.095		<0.005	<0.005			<0.005	0.02
MW-3D	9/14/07	0.675	0.9390001	0.304	0.005	1.92	1.12	0.161	ND	1.281	ND	0.292	0.087	ND	ND	0.086		ND	ND			ND	0.02
MW-3D	4/9/08	0.751	0.886	0.175	0.029	1.841	0.762	0.161	ND	0.923	ND	0.239	0.123	ND	ND	0.095		ND	ND			ND	0.018
MW-3D	10/16/08	1.1	1.3	0.37	0.12	2.89	0.8	0.2	<0.01	1	<0.005	0.59	0.13	<0.05	<0.005	0.13	<0.005	<0.005	<0.005	0.097	<0.005	<0.005	0.033
MW-3D (Dup)	10/16/08	0.6	0.67	0.26	0.034	1.564	0.37	0.081	<0.01	0.451	<0.005	0.19	0.051	<0.05	<0.005	0.05	<0.005	<0.005	<0.005	0.032	<0.005	<0.005	0.017
MW-3D	6/23/09	0.93	0.9400001	0.18	0.047	2.10	0.55	0															

Table 3. Analytical Results for Constituents Detected in Groundwater (mg/L)

Capitol Adhesives																							
Well	Date Sampled	Tetra chloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloroet hane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethaness	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2- Dichloro ethane	Acetone	Benzene	Chloroform	Cyclo hexane	Dichloro methane (Methylene chloride)	Freon-11	Freon-113	Methyl cyclo hexane	trans-1,2- Dichloroeth ene	
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	0.1	
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	0.9310001	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	0.1
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	0.041
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	0.018
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	0.024
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	0.011
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	0.011
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	0.0052
MW-6	2/8/12	<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	0.0067
MW-7	6/27/06	0.905	0.107	0.067	0.005	1.084	0.039	0.02	<0.005	0.059	<0.005	0.057	0.012	<0.01	<0.005	0.026		<0.005	<0.005		<0.005	<0.005	
MW-7	3/7/07	0.788	0.084	0.085	0.006	0.963	0.031	0.014	<0.01	0.045	<0.005	0.026	0.01	<0.01	<0.005	0.018		<0.005	<0.005		<0.005	<0.005	
MW-7	6/26/07	0.678	0.129	0.137	0.026	0.97	0.04	0.022	<0.01	0.062	<0.005	0.062	0.009	<0.01	<0.005	0.018		<0.005	<0.005		0.004 J	<0.005	
MW-7	9/14/07	1.13	0.786	0.348	0.014	2.278	0.272	0.082	ND	0.354	ND	0.354	0.067	ND	ND	0.119		ND	ND		0.004	0.019	
MW-7	4/8/08	1.06	0.226	0.335	0.104	1.725	0.039	0.024	ND	0.063	ND	0.108	0.034	ND	ND	0.067		0.007	ND		ND	0.009	
MW-7	10/15/08	2	0.67	0.52	0.27	3.46	0.18	0.095	<0.01	0.275	<0.005	0.47	0.078	<0.05	<0.005	0.17	<0.005	0.026	<0.005	0.13	<0.005	<0.005	0.02
MW-7	6/23/09	1.3	0.19	0.28	0.21	1.98	0.01	0.019	<0.01	0.029	<0.005	0.048	0.0091	0.15	<0.005	0.021	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-7	10/8/10	1.9	0.26	0.24	0.083	2.483	0.016	0.032	<0.01	0.048	<0.005	0.042	0.016	<0.05	<0.005	0.025	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005
MW-7 (Dup)	10/8/10	2.2	0.19	0.22	0.13	2.74	<0.005	0.02	<0.01	0.02	<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
MW-7	2/9/12	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
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
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
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
MW-8	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
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
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
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
MW-9	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
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																						

Capitol Adhesives

ND: Not detected	Note: Detection Limits from September 2007 and April 2008 are not available. If obtained, they will be added in a future report.
DL: Detection limit	Result greater than RRS, or DL if no RRS

Capitol Adhesives
Table 4. MNA Parameters (February 2012)

Parameter	Criterion*	MW-3	MW-3D	MW-4	MW-5
Alkalinity (mg/L as CaCO ₃)	> 2 x Bkg**	169	141	194	436
Chloride (mg/L)	> 2 x Bkg**	30	12	7	26
Ethene (mg/L)		0.035	0.016	< 0.007	0.24
Methane (mg/L)	>0.5 mg/L	1.5	0.57	2.2	9.1
Nitrate (mg/L)	< 1 mg/L	<0.25	<0.25	<0.25	<0.25
Nitrite (mg/L)		<0.25	<0.25	<0.25	<0.25
ORP (mV)	< 50 mV	-26	-91	-2	-102
Oxygen (mg/L)	< 0.5 mg/L	0	0	0	0
pH	5-9	6.95	7.43	6.88	7.26
Sulfate (mg/L)	< 20 mg/L	9.3	6.7	3	<1
Sulfide (mg/L)	> 1 mg/L	<2	<2	<2	<2
Temp (C)	> 20 C	14.65	10.5	16.95	16.84
TOC (mg/L)	> 20 mg/L	1.05	<1	<1	<1
TCE (mg/L)	detected	4.2	1.1	0.041	ND
DCE (mg/L)	detected	1.9	0.46	ND	0.024
VC (mg/L)	detected	0.24	0.12	0.011	0.011
DCA (mg/L)	detected	0.49	0.19	ND	0.023
Chloroethane (mg/L)	detected	ND	ND	ND	0.2

Bold - levels indicative of reductive dechlorination

* Level that is favorable for reductive dechlorination per "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater" (EPA, 1998).

** Background: MW-8 results from 10/2010: Alkalinity 126; Chloride 6.5

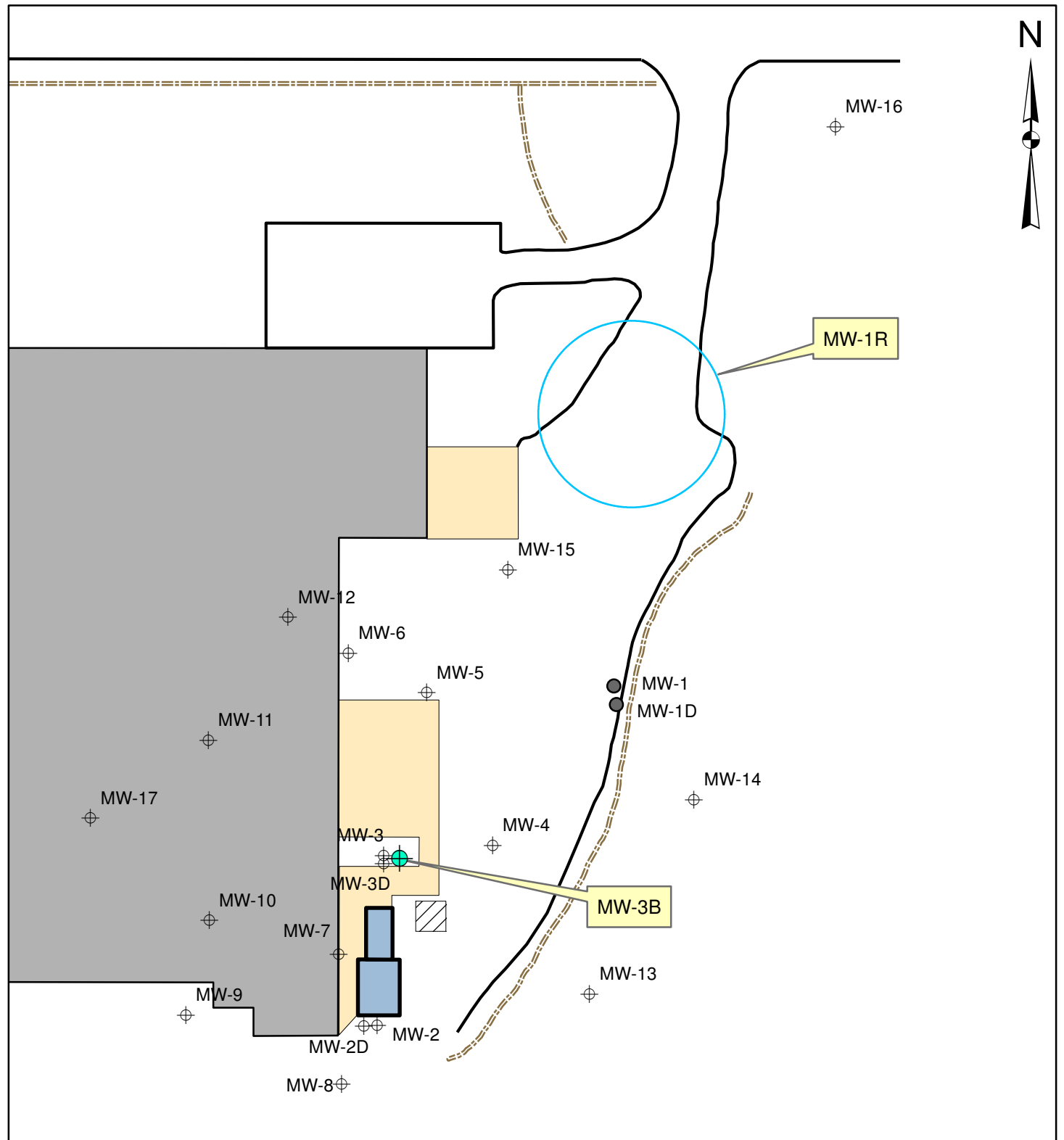
FIGURES

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											Apr 3										
2	Well Installation																					
3	Groundwater Sampling		Annual		Semi-Annual		Annual		Semi-Annual													
4	Source Area Evaluation and Remedial Action	Evaluate Csat						Prelim Remediation Plan				Final Remediation Plan										
5	Human Health Risk Evaluation							Prelim Risk Evaluation														CSR

EPD Deadline
 Internal Deadline

Capitol Adhesives Proposed Monitoring Well Locations



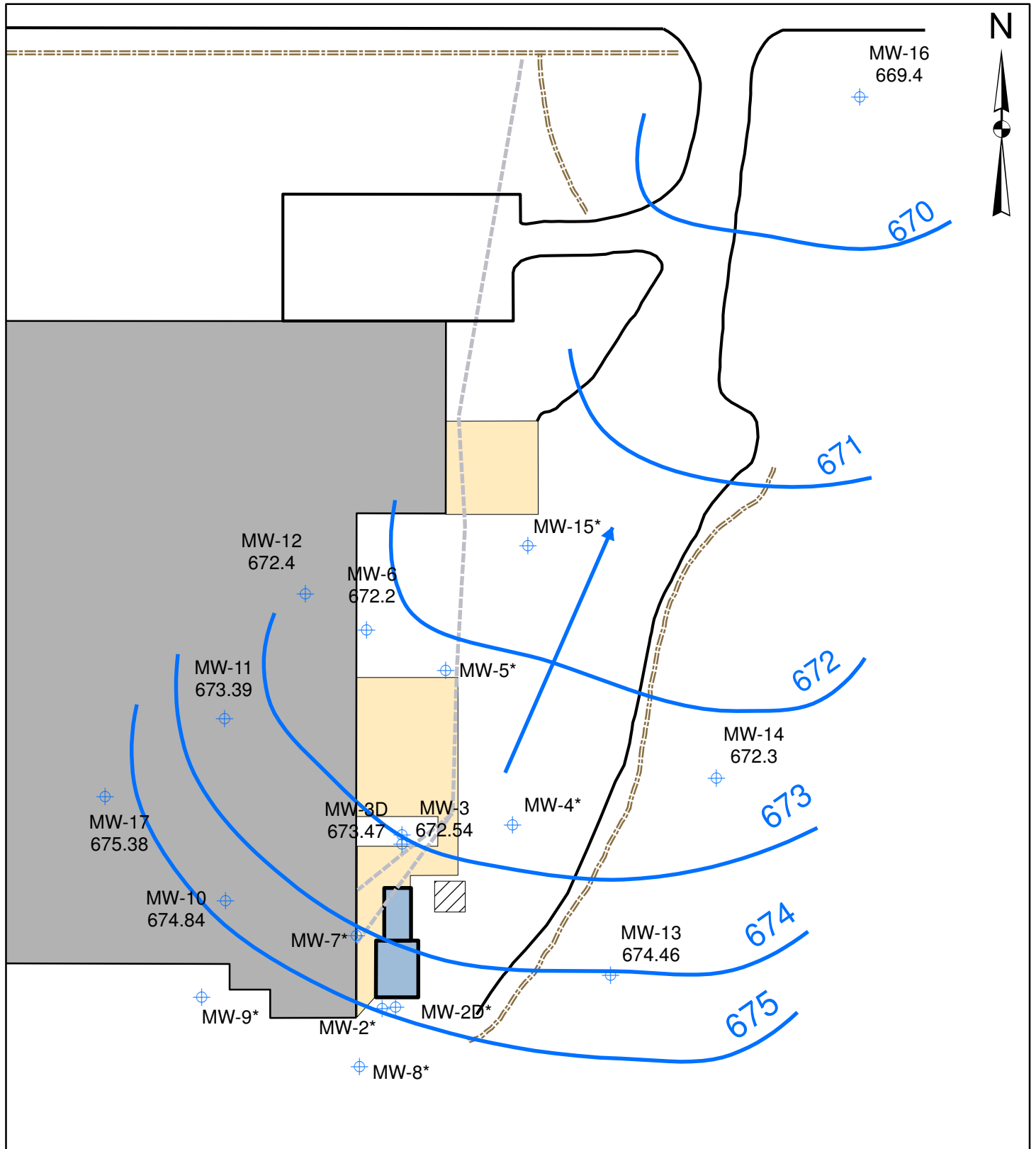
0 50 100
Feet

Legend

- ⊕ Existing Wells
- Former Wells
- ⊕ Proposed Well Location

- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

Capitol Adhesives Potentiometric Surface Map of Surficial Aquifer (Feb. 7, 2012)



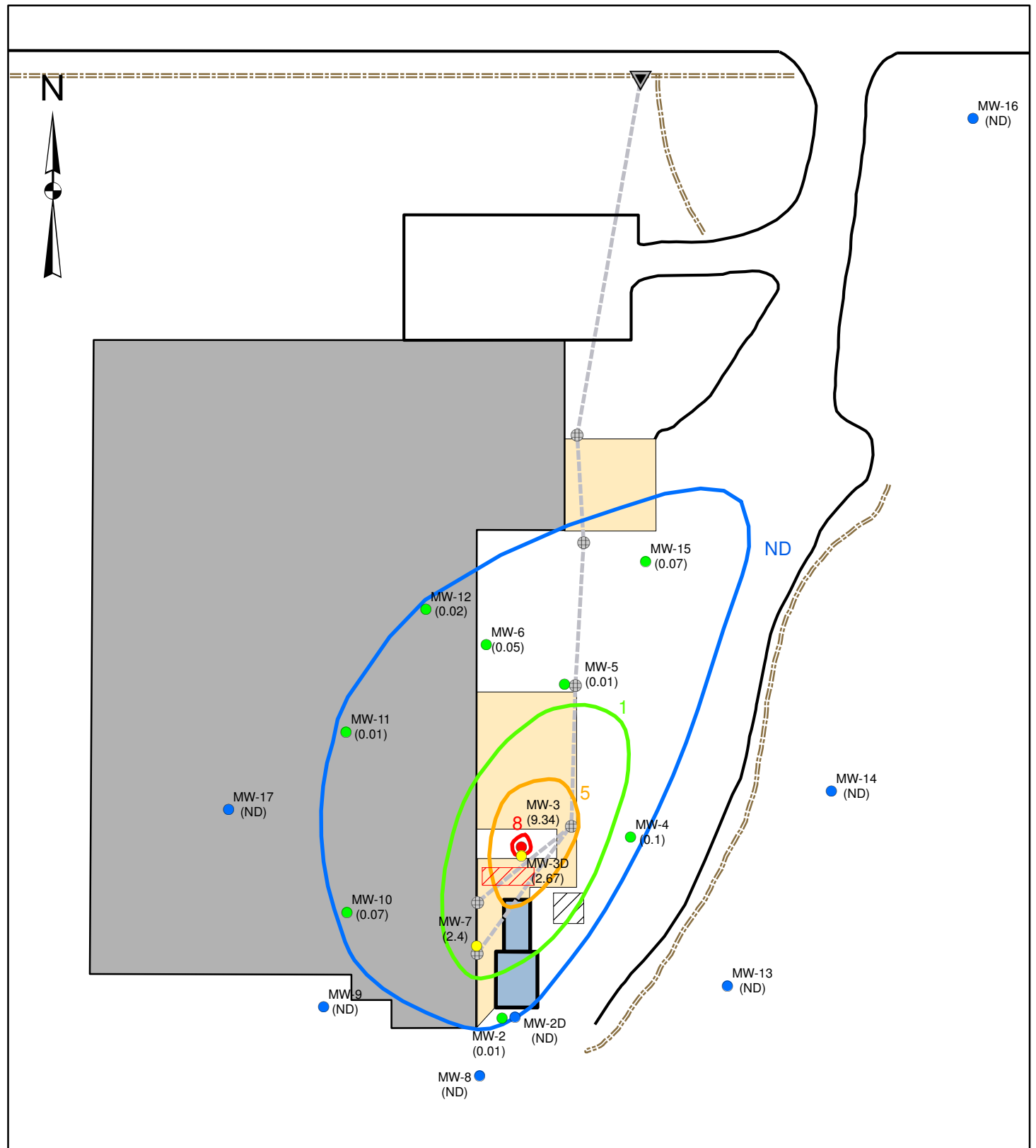
0 50 100
Feet

- Potentiometric Surface Elevation (ft msl)
- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines

- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

* Water table at or above ground surface

Capitol Adhesives Groundwater Total Chlorinated Ethenes* (February 2012)



0 50 100
Feet

Total VOCs* (mg/L)

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

- Isopleth
- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

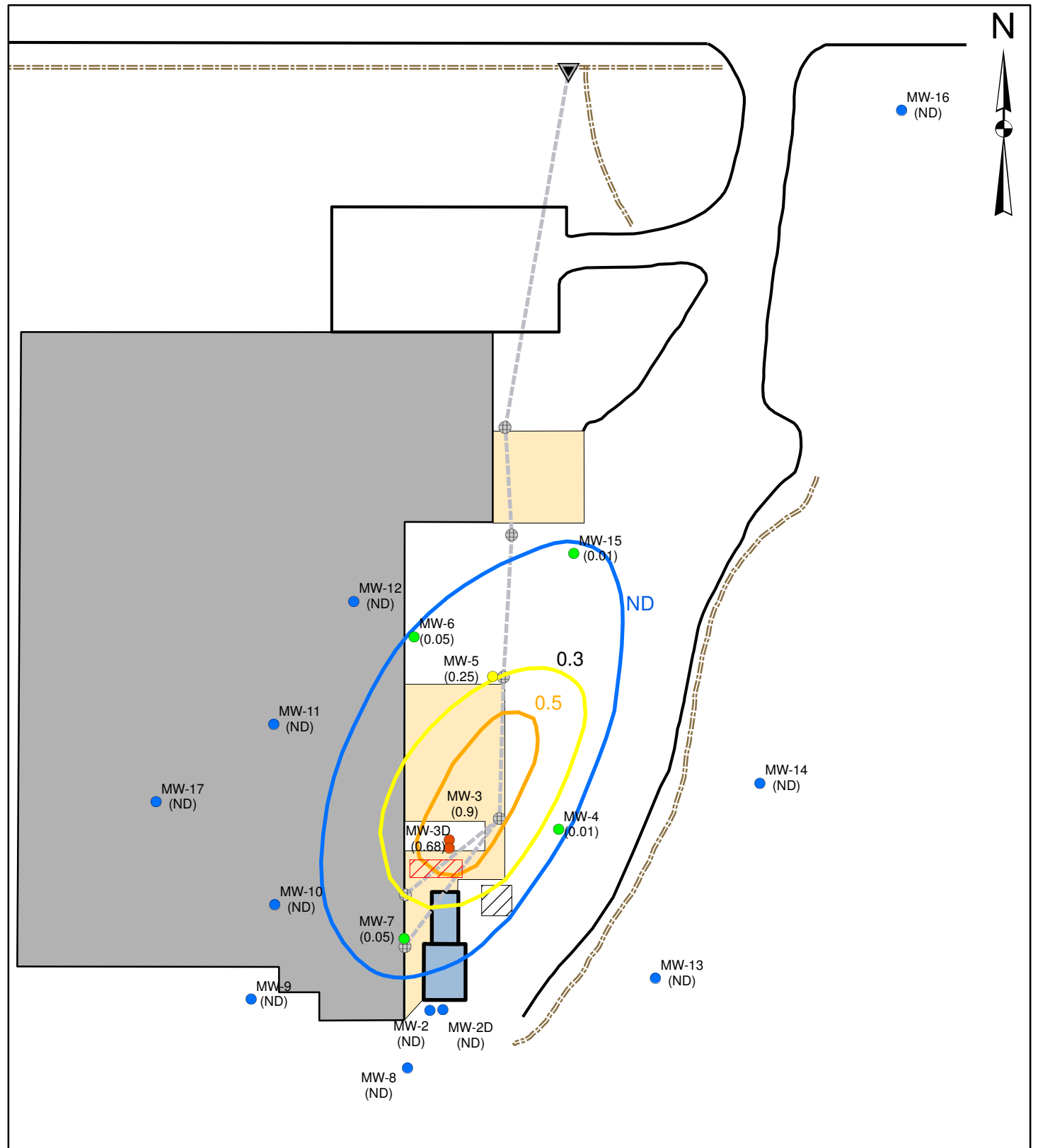
* Chlorinated ethenes = PCE, TCE, DCE, and VC

Environmental Planning Specialists, Inc.

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Figure No. 4

Capitol Adhesives Groundwater Total Chlorinated Ethanes* (February 2012)



0 50 100
Feet

Total VOCs* (mg/L)

- ND
- < 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- > 1

- VOC Isoleth
- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

* Chlorinated ethanes = TCA, DCA, and CA

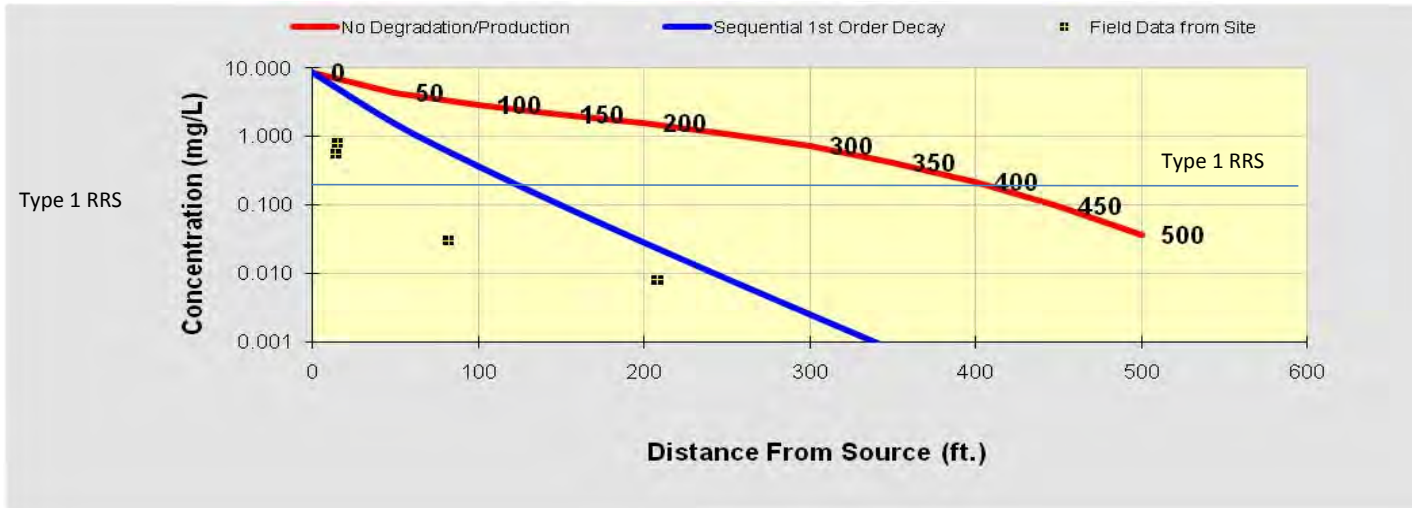
Environmental Planning Specialists, Inc.

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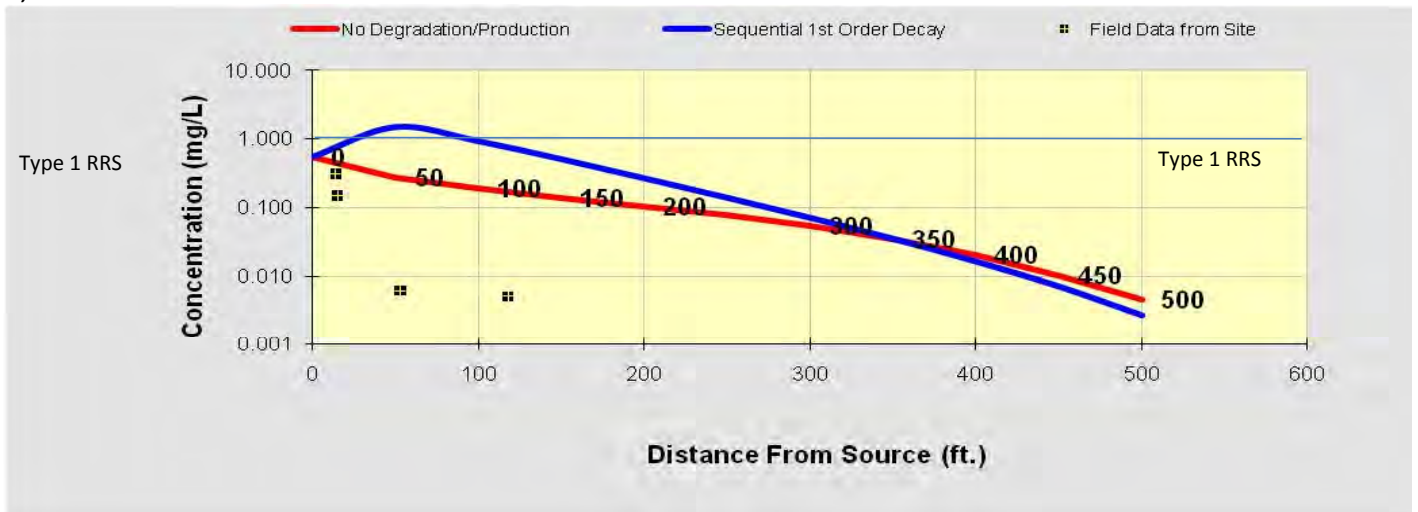
Figure No. 5

Figure 6 Chlorinated Ethane Modeling Results (February 2012)
Modeled Dissolved Chlorinated Ethane Concentrations Along Plume Centerline

1,1,1-Trichloroethane



1,1-Dichloroethane



Chloroethane

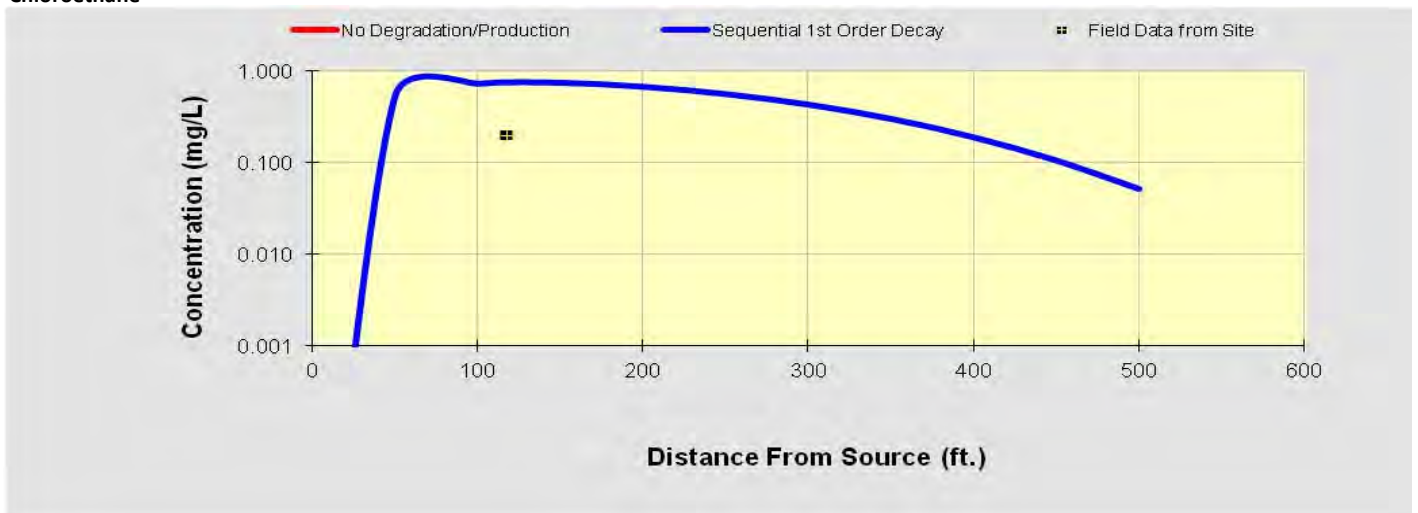
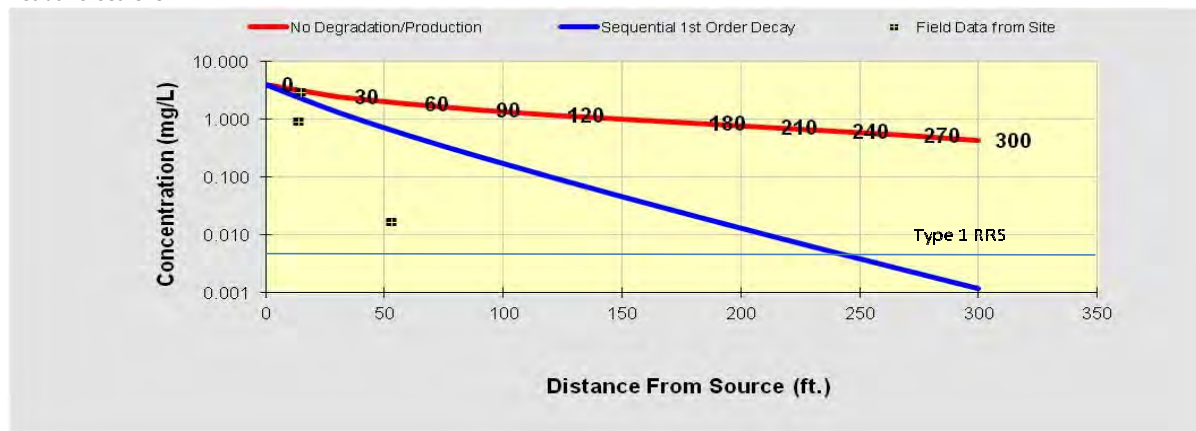
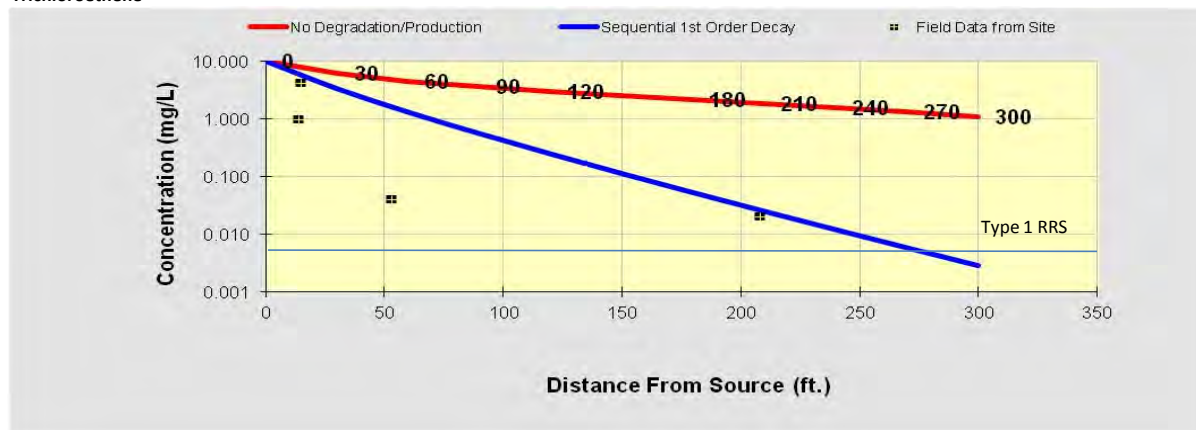


Figure 7 Chlorinated Ethene Modeling Results (February 2012)
Modeled Dissolved Chlorinated Ethene Concentrations Along Plume Centerline

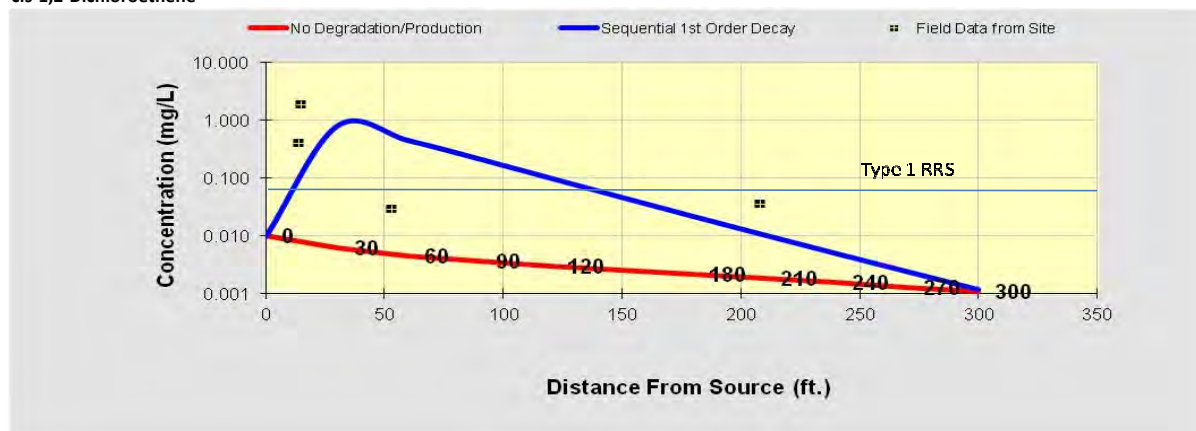
Tetrachloroethene



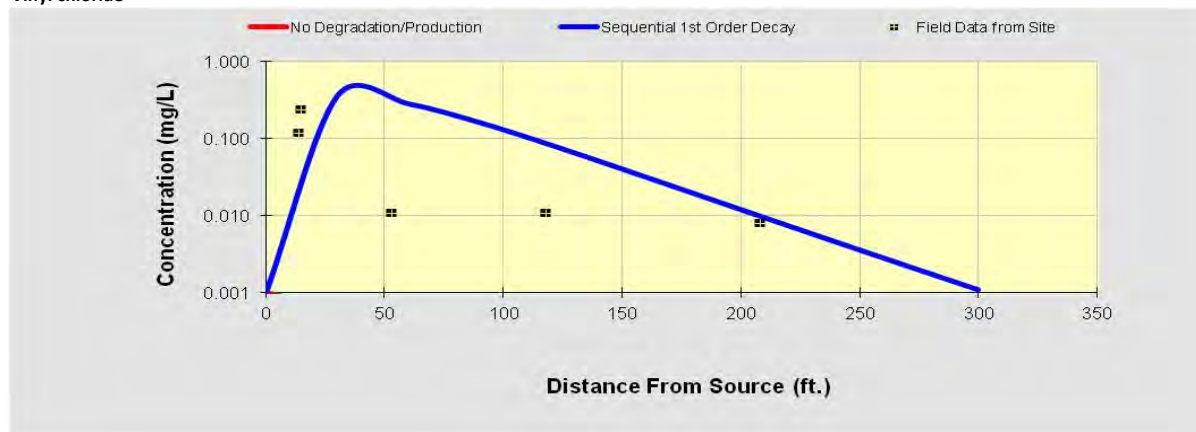
Trichloroethene



cis-1,2-Dichloroethene



Vinyl chloride



APPENDIX A

PROFESSIONAL GEOLOGIST SUMMARY OF HOURS

12:58 PM

04/02/12

Environmental Planning Specialists, Inc.
Billed Hours by Person and Activity
 October 2011 - March 2012

	<u>Oct 11</u>	<u>Nov 11</u>	<u>Dec 11</u>	<u>Jan 12</u>	<u>Feb 12</u>	<u>Mar 12</u>	<u>TOTAL</u>
River Associates:Dalton Adhesives:Progress Reports							
Kessler, Kirk J.							
P-Principal:P-Planning / Preparation	0.00	0.00	0.00	2.00	0.00	0.00	2.00
P-Principal:P-Project Management	0.00	0.00	0.00	0.00	0.00	3.00	3.00
P-Principal:P-Teleconference	0.00	0.00	0.00	0.00	0.00	1.50	1.50
Total Kessler, Kirk J.	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>0.00</u>	<u>4.50</u>	<u>6.50</u>
Total River Associates:Dalton Adhesives:Progress Reports	0.00	0.00	0.00	2.00	0.00	4.50	6.50
River Associates:Dalton Adhesives:Project Management							
Kessler, Kirk J.							
P-Principal:P-Meeting	0.00	0.00	0.00	0.00	0.00	3.00	3.00
Total River Associates:Dalton Adhesives:Project Management	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>3.00</u>	<u>3.00</u>
River Associates:Dalton Adhesives:Source Area Evaluation							
Kessler, Kirk J.							
P-Principal:P-Teleconference	0.00	0.00	0.00	0.00	0.00	1.00	1.00
Total River Associates:Dalton Adhesives:Source Area Evaluation	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>1.00</u>	<u>1.00</u>
TOTAL	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>2.00</u>	<u>0.00</u>	<u>8.50</u>	<u>10.50</u>

APPENDIX B

RISK REDUCTION STANDARD CALCULATIONS

Table 1 - Physical and Chemical Parameters

CAS #	Parameter	Organic Carbon Partition Coefficient (K _{oc}) (cm ³ /g)	Diffusivity in air (D _a) (cm ² /s)	Henry's Law Constant (H') (unitless)	Henry's Law Constant at reference temperature of 25C (H) (atm-m ³ /mol)	Volatile?	Dei = Da x E ^{0.33}	Kd = Koc x OC	Kas = (H/Kd) x 41	α	VF m ³ /kg
71-55-6	1,1,1-Trichloroethane	4.39E+01	0.065	7.00E-01	1.72E-02	Y	4.60E-02	8.78E-01	8.03E-01	6.45E-03	1.54E+03
79-00-5	1,1,2-Trichloroethane	6.07E+01	0.067	3.40E-02	8.24E-04	Y	4.74E-02	1.21E+00	2.78E-02	2.66E-04	8.79E+03
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.97E+02	0.037566	2.15E+01	5.26E-01	Y	2.66E-02	3.94E+00	5.48E+00	1.40E-02	5.77E+02
75-34-3	1,1-Dichloroethane	3.18E+01	0.084	2.30E-01	5.62E-03	Y	5.94E-02	6.36E-01	3.62E-01	4.07E-03	2.11E+03
75-35-4	1,1-Dichloroethene	3.18E+01	0.086	1.07E+00	2.61E-02	Y	6.08E-02	6.36E-01	1.68E+00	1.55E-02	8.64E+02
107-06-2	1,2-Dichloroethane	3.96E+01	0.086	4.80E-02	1.18E-03	Y	6.08E-02	7.92E-01	6.11E-02	7.46E-04	5.22E+03
78-87-5	1,2-Dichloropropane	6.07E+01	0.07334	1.15E-01	2.82E-03	Y	5.19E-02	1.21E+00	9.52E-02	9.85E-04	4.51E+03
123-91-1	1,4-Dioxane	2.63E+00	0.087372	1.96E-04	4.80E-06						
78-93-3	2-Butanone (MEK)	4.51E+00	0.091	2.30E-03	5.69E-05	Y	6.44E-02	9.02E-02	2.59E-02	3.36E-04	7.82E+03
67-64-1	Acetone	2.36E+00	0.11	1.40E-03	3.50E-05	Y	7.78E-02	4.73E-02	3.04E-02	4.77E-04	6.56E+03
71-43-2	Benzene	1.46E+02	0.09	2.30E-01	5.55E-03	Y	6.36E-02	2.92E+00	7.80E-02	9.93E-04	4.50E+03
75-00-3	Chloroethane	2.17E+01	0.1	4.50E-01	1.11E-02	Y	7.07E-02	4.35E-01	1.05E+00	1.24E-02	1.07E+03
67-66-3	Chloroform	3.18E+01	0.077	1.50E-01	3.67E-02	Y	5.45E-02	6.36E-01	2.36E-01	2.50E-03	2.75E+03
156-59-2	cis-1,2-Dichloroethene	3.96E+01	0.088	1.70E-01	4.08E-03	Y	6.22E-02	7.92E-01	2.11E-01	2.56E-03	2.73E+03
110-82-7	Cyclohexane	145.8	8.00E-02	6.10E+00	0.15	Y	5.66E-02	2.92E+00	2.11E+00	1.70E-02	7.75E+02
75-09-2	Dichloromethane (Methylene chloride)	2.17E+01	0.1	1.30E-01	3.25E-03	Y	7.07E-02	4.35E-01	3.07E-01	4.15E-03	2.11E+03
100-41-4	Ethyl benzene	4.46E+02	0.068	3.20E-01	7.88E-03	Y	4.81E-02	8.92E+00	3.62E-02	3.51E-04	7.64E+03
127-18-4	Tetrachloroethene	9.49E+01	0.05	7.20E-01	1.77E-02	Y	3.54E-02	1.90E+00	3.82E-01	2.55E-03	2.65E+03
108-88-3	Toluene	2.34E+02	0.078	2.70E-01	6.64E-03	Y	5.52E-02	4.68E+00	5.82E-02	6.45E-04	5.61E+03
156-60-5	trans-1,2-Dichloroethene	3.96E+01	0.088	1.70E-01	4.08E-03	Y	6.22E-02	7.92E-01	2.11E-01	2.56E-03	2.73E+03
79-01-6	Trichloroethene	6.07E+01	0.069	4.00E-01	9.85E-03	Y	4.88E-02	1.21E+00	3.33E-01	3.09E-03	2.43E+03
75-69-4	Trichlorofluoromethane	4.39E+01	0.065	3.97E+00	9.70E-02	Y	4.60E-02	8.78E-01	4.53E+00	2.20E-02	5.06E+02
75-01-4	Vinyl chloride	2.17E+01	0.107119	1.14E+00	2.78E-02	Y	7.58E-02	4.35E-01	2.62E+00	2.63E-02	5.80E+02

Notes:

Physical/Chemical Parameters are from the May 2011 RSL Table unless otherwise noted.

$$\frac{(LS \times V \times DH)}{A} \times \frac{(\pi \times \alpha \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{oc} \times 10^{-3} \text{ kg/g})}$$

LS =	45 m	length of side of contaminated area
V =	2.25 m/s	wind speed in mixing zone
DH =	2 m	diffusion height
A =	20300000 cm ²	area of contamination
π =	3.14	
α =	$\frac{(D_a \times E)}{E + \rho_s(1-E)/K_{as}}$ cm ² /s	
D _{ei} =	D _i x E ^{0.33} cm ² /s	effective diffusivity
D _i =	Chemical specific	molecular diffusivity (cm ² /s)
E =	0.35	total soil porosity
ρ _s =	2.65 g/m ³	density of soil solids
Kas =	(H/Kd) x 41	soil/air partition coefficient (g soil/cm ³ air)
H =	Chemical specific	Henry's law constant (atm-m ³ /mol)
Kd =	Koc x OC	soil-water partition coefficient
Koc =	Chemical specific	organic carbon partition coefficient
OC =	0.02	soil organic carbon content fraction
T =	790000000 s	exposure interval

Table 2 - Toxicity Criteria

CAS	Parameter	NonCancer Toxicity Values			Cancer Toxicity Values			
		Oral RfD	Inhalation RFC	Inhalation RfD	Cancer Class	Oral CSF	Inhalation Unit Risk	Inhalation CSF
		mg/kg-day	mg/m3	mg/kg-day		per mg/kg-day	per ug/m3	per mg/kg-day
71-55-6	1,1,1-Trichloroethane	2	5.00E+00	1.43E+00	D	NA	NA	NA
79-00-5	1,1,2-Trichloroethane	0.004	2.00E-04	5.71E-05	C	5.70E-02	1.60E-05	5.60E-02
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	30	8.57E+00		NA	NA	NA
75-34-3	1,1-Dichloroethane	0.2	NA	NA	C	5.70E-03	1.60E-06	5.60E-03
75-35-4	1,1-Dichloroethene	0.05	2.00E-01	5.71E-02	C	NA	NA	NA
107-06-2	1,2-Dichloroethane	0.006	7.00E-03	2.00E-03	B2	9.10E-02	2.60E-05	9.10E-02
78-87-5	1,2-Dichloropropane	0.09	4.00E-03	1.14E-03	NA	3.60E-02	1.00E-05	3.50E-02
123-91-1	1,4-Dioxane	0.03	3.00E+00	8.57E-01		1.00E-01	7.70E-06	2.70E-02
78-93-3	2-Butanone (MEK)	0.6	5.00E+00	1.43E+00	NA	NA	NA	NA
67-64-1	Acetone	0.9	3.10E+01	8.86E+00	NA	NA	NA	NA
71-43-2	Benzene	0.004	3.00E-02	8.57E-03	A	5.50E-02	7.80E-06	2.73E-02
75-00-3	Chloroethane	NA	1.00E+01	2.86E+00	B	NA	NA	NA
67-66-3	Chloroform	0.01	9.80E-02	2.80E-02	B2	0.031	2.30E-05	8.05E-02
156-59-2	cis-1,2-Dichloroethene	0.002	NA	NA		NA	NA	NA
110-82-7	Cyclohexane	NA	6	1.71E+00	NA	NA	NA	NA
75-09-2	Dichloromethane (Methylene chloride)	0.06	1.00E+00	2.86E-01	B2	7.50E-03	4.70E-07	1.65E-03
100-41-4	Ethyl benzene	0.1	1.00E+00	2.86E-01	NA	1.10E-02	2.50E-06	8.75E-03
127-18-4	Tetrachloroethene	0.01	2.70E-01	7.71E-02	NA	5.40E-01	5.90E-06	2.07E-02
108-88-3	Toluene	0.08	5.00E+00	1.43E+00	unlikely	NA	NA	NA
156-60-5	trans-1,2-Dichloroethene	0.02	6.00E-02	1.71E-02	NA	NA	NA	NA
79-01-6	Trichloroethene	NA	0.01	2.86E-03		5.90E-03	2.00E-06	7.00E-03
75-69-4	Trichlorofluoromethane	0.3	7.00E-01	2.00E-01	NA			
75-01-4	Vinyl chloride	0.003	1.00E-01	2.86E-02	A	7.2E-01	4.40E-06	1.54E-02

Values are from the EPA Regional Screening Level Summary Table (May 2011)

Table 3 - Adult Resident Noncancer-Based Soil Screening Levels (SSLs)

Chemical	Oral RfD	Inhalation RfD	Volatile?	VF	Oral	Inhalation	RAGS Eqn. 7
	mg/kg-day	mg/kg-day			mg/kg	mg/kg	
1,1,1-Trichloroethane	2.00E+00	1.43E+00	Y	1544	1000000	10734	10645
1,1,2-Trichloroethane	4.00E-03	5.71E-05	Y	8786	2561	2.4	2.4
1,1,2-Trichloro-1,2,2-trifluoroethane	3.00E+01	8.57E+00	Y	577	20000000	24069	24039
1,1-Dichloroethane	2.00E-01	NA	Y	2105	128070	NA	128070
1,1-Dichloroethene	5.00E-02	5.71E-02	Y	864	32018	240	238
1,2-Dichloroethane	6.00E-03	2.00E-03	Y	5217	3842	51	50
1,2-Dichloropropane	9.00E-02	1.14E-03	Y	4509	57632	25	25
1,4-Dioxane	3.00E-02	8.57E-01	0	NA	19211	20000000000	19211
2-Butanone (MEK)	6.00E-01	1.43E+00	Y	7821	384211	54374	47633
Acetone	9.00E-01	8.86E+00	Y	6564	576316	282939	189772
Benzene	4.00E-03	8.57E-03	Y	4504	2561	188	175
Chloroethane	NA	2.86E+00	Y	1068	NA	14850	14850
Chloroform	1.00E-02	2.80E-02	Y	2754	6404	375	355
cis-1,2-Dichloroethene	2.00E-03	NA	Y	2733	1281	NA	1281
Cyclohexane	NA	1.71E+00	Y	775	NA	6466	6466
Dichloromethane (Methylene chloride)	6.00E-02	2.86E-01	Y	2108	38421	2931	2723
Ethyl benzene	1.00E-01	2.86E-01	Y	7639	64035	10622	9111
Tetrachloroethene	1.00E-02	7.71E-02	Y	2651	6404	995	861
Toluene	8.00E-02	1.43E+00	Y	5614	51228	39031	22153
trans-1,2-Dichloroethene	2.00E-02	1.71E-02	Y	2733	12807	228	224
Trichloroethene	NA	2.86E-03	Y	2430	NA	34	34
Trichlorofluoromethane	3.00E-01	2.00E-01	Y	506	192105	493	491
Vinyl chloride	3.00E-03	2.86E-02	Y	580	1921	81	77

$$\text{Oral C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (1/\text{RfD}_o \times 10^{-6} \times \text{IR}_s)}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (1/\text{RfD}_i \times \text{IR}_a \times (1/\text{VF} + 1/\text{PEF}))}$$

$$\text{RAGS Eqn 7} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times [(1/\text{RfD}_o \times 10^{-6} \times \text{IR}_s) + (1/\text{RfD}_i \times \text{IR}_a \times (1/\text{VF} + 1/\text{PEF}))]}$$

Parameter	Value	Source	Comment
Body Weight, Adult (kg)	70	1	
Exposure Frequency, Resident Adult (d/yr)	350	1	
Exposure Duration, Resident Adult (yr)	30	1	
Soil Ingestion, Resident Adult (mg/d)	114	1	
Water ingestion, Resident Adult (L/d)	2	1	
Inhalation Rate, Resident Adult (m ³ /d)	15	1	
Averaging Time, Noncancer, Adult (d)	10950	1	Exposure Duration x 365 days
Target hazard quotient	1	1	
Water-to-air volatilization factor (L/m ³)	0.5	1	
Particulate Emission Factor (m ³ /kg)	4630000000	1	

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSRRRS.html>

Table 4 - Adult Resident Cancer-Based Soil Screening Levels (SSLs)

Chemical	Oral CSF	Inhalation CSF	Class	Volatile?	VF	Oral SSL	Inhalation SSL	RAGS Eqn. 6 SSL	SSL (adjusted for cancer class)
	per mg/kg-day	per mg/kg-day				mg/kg	mg/kg	mg/kg	mg/kg
1,1,1-Trichloroethane	NA	NA	D	Y	1544	NA	NA	NA	NA
1,1,2-Trichloroethane	0.057	5.60E-02	C	Y	8786	262	18	17	170
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	0	Y	577	NA	NA	NA	NA
1,1-Dichloroethane	0.0057	5.60E-03	C	Y	2105	2621	43	42	420
1,1-Dichloroethene	NA	NA	C	Y	864	NA	NA	NA	NA
1,2-Dichloroethane	0.091	9.10E-02	B2	Y	5217	164	6.5	6.3	6.3
1,2-Dichloropropane	0.036	3.50E-02	NA	Y	4509	415	15	14	14
1,4-Dioxane	0.1	2.70E-02	0	0	NA	149	20000000	149	149
2-Butanone (MEK)	NA	NA	NA	Y	7821	NA	NA	NA	NA
Acetone	NA	NA	NA	Y	6564	NA	NA	NA	NA
Benzene	0.055	2.73E-02	A	Y	4504	272	19	18	18
Chloroethane	NA	NA	B	Y	1068	NA	NA	NA	NA
Chloroform	0.031	8.05E-02	B2	Y	2754	482	3.9	3.9	3.9
cis-1,2-Dichloroethene	NA	NA	0	Y	2733	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	Y	775	NA	NA	NA	NA
Dichloromethane (Methylene chloride)	0.0075	1.65E-03	B2	Y	2108	1992	146	136	136
Ethyl benzene	0.011	8.75E-03	NA	Y	7639	1358	99	92	92
Tetrachloroethene	0.54	2.07E-02	NA	Y	2651	28	15	9.5	9.5
Toluene	NA	NA	unlikely	Y	5614	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	Y	2733	NA	NA	NA	NA
Trichloroethene	0.0059	7.00E-03	0	Y	2430	2532	39	39	39
Trichlorofluoromethane			NA	Y	506	NA	NA	NA	NA
Vinyl chloride	7.2E-01	1.54E-02	A	Y	580	21	4.3	3.5	3.5

$$\text{Oral C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (\text{SFo} \times 10^{-6} \times \text{IRs})}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (\text{SFi} \times \text{IRa} \times (1/\text{VF} + 1/\text{PEF}))}$$

$$\text{RAGS Eqn 7} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times [(\text{SFo} \times 10^{-6} \times \text{IRs}) + (\text{SFi} \times \text{IRa} \times (1/\text{VF} + 1/\text{PEF}))]}$$

Parameter	Value	Source	Comment
Body Weight, Adult (kg)	70	1	
Exposure Frequency, Resident Adult (d/yr)	350	1	
Exposure Duration, Resident Adult (yr)	30	1	
Soil Ingestion, Resident Adult (mg/d)	114	1	
Water ingestion, Resident Adult (L/d)	2	1	
Inhalation Rate, Resident Adult (m ³ /d)	15	1	
Averaging Time, Cancer, Adult (d)	25550	1	
Target Risk (high)	0.0001	1	for group C carcinogens
Target Risk (low)	0.00001	1	for group A and B carcinogens
Water-to-air volatilization factor (L/m3)	0.5	1	
Particulate Emission Factor (m3/kg)	4630000000	1	

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSRIRS.html>

Table 5 - Type 1 Soil RRS

CAS #Parameter		TYPE 1 - SOIL (mg/kg)							Type 1 Soil RRS
		Rule 391-3-19-.07(6)(c): Table 2 Appendix III, or if not listed, the the least of Items 1-3 (and if not calculable the higher of background and DL)							
		Table 2 - Appendix III	Item 1 of Rule 391-3-19-.07(6)(c): Higher of (i) and (ii)			Item 2 RAGS Eqn.	Item 3 RAGS Eqn.	Least of Items 1 - 3	
(i): Appendix I (NC) - excl. []	(ii): Type 1 GW x 100 factor		Higher of (i) and (ii)	Adult	Adult				
71-55-6	1,1,1-Trichloroethane		5.44	20	20	10645	NA	20	20
79-00-5	1,1,2-Trichloroethane		0.5	0.5	0.5	2.4	170	0.5	0.5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane		6.92	100000	100000	24039	NA	24039	24039
75-34-3	1,1-Dichloroethane		0.03	400	400	128070	420	400	400
75-35-4	1,1-Dichloroethene		0.36	0.7	0.7	238	NA	0.7	0.7
107-06-2	1,2-Dichloroethane		0.02	0.5	0.5	50	6.3	0.5	0.5
78-87-5	1,2-Dichloropropane		0.02	0.5	0.5	25	14	0.5	0.5
123-91-1	1,4-Dioxane		DL	7	7	19211	149	7	7
78-93-3	2-Butanone (MEK)		0.79	200	200	47633	NA	200	200
67-64-1	Acetone		2.74	400	400	189772	NA	400	400
71-43-2	Benzene		0.02	0.5	0.5	175	18	0.5	0.5
75-00-3	Chloroethane		0.17	NA	0.17	14850	NA	0.17	0.17
67-66-3	Chloroform		0.68	8	8	355	3.9	3.9	3.9
156-59-2	cis-1,2-Dichloroethene		0.53	7	7	1281	NA	7	7
110-82-7	Cyclohexane		20	NA	20	6466	NA	20	20
75-09-2	Dichloromethane (Methylene chloride)		0.08	0.5	0.5	2723	136	0.5	0.5
100-41-4	Ethyl benzene		20	70	70	9111	92	70	70
127-18-4	Tetrachloroethene		0.18	0.5	0.5	861	9.5	0.5	0.5
108-88-3	Toluene		14.4	100	100	22153	NA	100	100
156-60-5	trans-1,2-Dichloroethene		0.53	10	10	224	NA	10	10
79-01-6	Trichloroethene		0.13	0.5	0.5	34	39	0.5	0.5
75-69-4	Trichlorofluoromethane		0.7	200	200	491	NA	200	200
75-01-4	Vinyl chloride		0.04	0.2	0.2	77	3.5	0.2	0.2

Table 6 - Type 1 RRS - Groundwater

		TYPE 1 GW RRS		
		Rule 391-3-19-.07(6)(b) and Guidance: The lesser of Table 1 App III and GA MCL (or where NA, the higher of DL or Bkg)		
CAS #	Parameter	Table 1, App III mg/L	GA MCL mg/L	Type 1 GW RRS mg/L
71-55-6	1,1,1-Trichloroethane	0.2		0.2
79-00-5	1,1,2-Trichloroethane	0.005		0.005
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000		1000
75-34-3	1,1-Dichloroethane	4		4
75-35-4	1,1-Dichloroethene	0.007		0.007
107-06-2	1,2-Dichloroethane	0.005		0.005
78-87-5	1,2-Dichloropropane	0.005	0.005	0.005
123-91-1	1,4-Dioxane	0.07	1.005	0.07
78-93-3	2-Butanone (MEK)	2		2
67-64-1	Acetone	4		4
71-43-2	Benzene	0.005	0.005	0.005
75-00-3	Chloroethane	-		Bkg/DL
67-66-3	Chloroform	0.08		0.08
156-59-2	cis-1,2-Dichloroethene	0.07		0.07
110-82-7	Cyclohexane	-		Bkg/DL
75-09-2	Dichloromethane (Methylene chloride)	0.005	0.005	0.005
100-41-4	Ethyl benzene	0.7	0.7	0.7
127-18-4	Tetrachloroethene	0.005	0.005	0.005
108-88-3	Toluene	1	1	1
156-60-5	trans-1,2-Dichloroethene	0.1	1	0.1
79-01-6	Trichloroethene	0.005	0.005	0.005
75-69-4	Trichlorofluoromethane	2		2
75-01-4	Vinyl chloride	0.002	0.005	0.002

APPENDIX C

CONCEPTUAL SITE MODEL

C. CONCEPTUAL SITE MODEL

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

C.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.

C.2 Ground Surface Features

The Property 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 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 and several lean-to structures are on the south and west sides. There is limited grassy terrain on the eastern and northern side of the Property. The topography of the Property gently slopes from the south to northeast. A shallow drainage ditch is located around the southern and eastern side of the Property 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 surface water features on or adjacent to the Property. A topographic map is provided in Figure 1 and the site features are shown on Figure 2.

C.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 2 depicts the approximate location of the spill¹. 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 disposal². Groundwater samples

¹ The location depicted for the tanker truck spill has been modified from previous depictions in the Corrective Action Plan Addendum (EPS, 2009) due to recently-discovered information.

² There is no documentation of the dimensions or specific locations of the soil excavation.

were not collected during the post spill response. However, 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.

C.4 Subsurface Features

C.4.1 Geological Setting

The Property 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 Property 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 lithology seen at the Property 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 3, and cross sections are shown on Figures 4 and 5. As depicted on these figures, the shallow stratigraphic profile at the Property 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 20 feet bgs.

C.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 Property fluctuates on the scale of 5-8 ft at a given location, with many locations exhibiting a high water table mark at the ground surface. 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 Property on three consecutive weekly site visits. The results are presented in Table 2 of the Progress Report along with the results from the February 2012 sampling event. 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 4 and 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 6 shows the locations of the wells and their high water table marks. Figure 3 of the Progress Report is a potentiometric surface map from the February, 2012 gauging event. The overall groundwater flow direction is to the northeast.

Well	High Water Table Mark: 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 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 Property now exists. This is the same direction as the groundwater flow seen currently at the site (Figure 3 of the Progress Report). 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 likely occurring because the valley bottom was filled with material having higher permeability than the native soil. Additionally, the valley bottom pitches from the south to the north creating artesian pressure when the water table is generally high.

Figure 6 was used to define soil zones on the Property 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 6 was conservatively assumed to be the area between the wells where the groundwater table intersects the ground surface. It is very 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 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.

As mentioned above, in the fully saturated zone there is no vadose zone soil. Instead, there is a solid aquifer matrix that will be evaluated to determine if there is potential source material. In the other zones there is a vadose zone soil matrix above the high water table mark and solid aquifer matrix below the high water table mark.

Hydraulic gradients, hydraulic conductivity and transmissivity calculations³ were presented in the CAP (WRS, 2006). Horizontal hydraulic gradients range from 0.0083 to 0.0125 feet/foot. The hydraulic conductivity ranges from 2.63 to 8.09 feet per day with an average and geometric mean of 5.29 and 4.46 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 5.29 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.

³ Hydraulic conductivity and transmissivity were determined by slug tests on four monitoring wells using the Bouwer and Rice method.

C.5 Extent of Contamination

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

C.5.1 Groundwater Conditions

Twenty groundwater monitoring wells at the Property have been sampled over time (boring logs and well construction diagrams are presented in Appendix F and Appendix G of the VIRP, respectively). 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 3 of the Progress Report.

TCA, PCE, and TCE are the primary constituents of interest at the Property due to the known TCA spill and because these constituents (and daughter products) have been consistently detected 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 ethanes (TCA, DCA and CA) in 2012 are shown in Figure 5 of the Progress Report. Similarly, groundwater concentrations of chlorinated ethenes (PCE, TCE, DCE and VC) are shown in Figure 4. The spatial distribution of constituents in groundwater is consistent with the pattern observed in the subsurface solid matrix with groundwater exhibiting the highest concentrations immediately north of the tanker truck spill area. The primary direction of the groundwater plumes are to north and northeast of the basin consistent with groundwater flow.

The distribution of parent compounds and degradation products demonstrate degradation has occurred over the Property's history, with degradation products having a tendency to exhibit a greater spatial distribution 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 7 and 8 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 4 and 5 in the Progress Report) with MW-16 to the north, MW-14 to the east, MW-8 to the south and MW-17 to the west. Three pairs of monitoring wells are available to evaluate the vertical extent of VOCs (MW-1/MW-1D, MW-2/MW-2D, and MW-3/MW-3D). However, MW-1 and MW-1D have been damaged and are no longer operable. A review of data from the MW-2 and MW-3 well

clusters identified VOCs in both the shallow and deep wells, but both the number of constituents and concentrations are lower in the deep well of each pair. Thus, the concentrations of constituents decrease with depth. However, MW-2D and MW-3D are not much deeper than MW-2 and MW-3 and are all in weathered shale. The well depth for MW-2 is 15 ft bgs and 17.3 ft bgs for MW-2D. Similarly, MW-3's well depth is 15 ft bgs and MW-3D's is 22.5 ft bgs. As there are no wells located deeper than MW-3D, vertical delineation has not been completed yet. It is anticipated that vertical delineation will be completed with results collected after the installation of a bedrock well near MW-3/MW-3D.

C.5.2 Solid Aquifer Matrix and Vadose Zone Soil

C.1.1.1 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 discussed together. Six subsurface investigations have been completed to date at the Property. 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 1 and the sample locations are shown on Figure 9. Available boring logs are presented in Appendix F of the VIRP.

Figure 9 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 1 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 9). 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 9). 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 traditional 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 9). 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 9) 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 collect in the truck spill area, just north of the AST containment area. With the exception of SO-5, all of these sample locations are 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.

C.5.2.1 Extent of Chlorinated Solvents

Figures 10 and 11 show the extent of total chlorinated ethanes and ethenes 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 solvents in the solid subsurface matrix exhibits a clear concentration gradient with highest values occurring adjacent to the north end of the AST containment area (near the area where the tanker truck spill occurred). Chlorinated solvent concentrations lessen with distance from this area. This area of high concentrations is in the fully saturated zone indicating that it is comprised of the solid aquifer matrix (without any vadose zone soil). The presence of source material in the solid aquifer matrix in this area is discussed further in Section 5 of the Progress Report.

C.5.2.2 Delineation

Delineation is only appropriate for the vadose zone soils. However, because much of the area of interest on the Property 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 10 and 11 show that the solid matrix has been delineated to background in all directions, except for MW-11 on the west side. The only constituents detected in MW-11 is trichloroethene 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.

C.6 Fate and Transport Summary

C.6.1 Physical Fate and Transport

The primary parent constituents of interest at this Property 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 Property, 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 Property. 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 Property 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 Property 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 Property.

C.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.

C.6.2.1 Daughter Products and Time Series Graphs

The presence of the daughter products at the Property indicates that biological degradation is occurring. Additionally, time series figures (Figures 7 and 8) show the decrease of parent products and subsequent increase in daughter products over time.

C.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 Property. 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 2 shows the results of this screening at the Property 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 Progress Report).

C.6.2.3 Microbial Testing

Tables 3 and 4 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 3) and aerobic (Table 4) 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 Property. 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 3) 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 Property for reductive dechlorination, especially in the direction of MW-3 to MW-5.

C.6.2.4 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[®] 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 February 2012 sampling event are compared to the 2012 model results in Figures 6 and 7 of the Progress Report.

C.7 Potential Receptors and Exposure Pathways

C.7.1 Setting

The Property 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 Property.

The adjoining properties are used for commercial purposes or are currently vacant. Properties immediately adjacent to the Property 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 Property is zoned for heavy manufacturing, with some general agricultural zoned areas beyond the manufacturing zoning.

C.7.2 Human Health

The nearest residence is greater than 2000 feet northwest of the Property. The Property 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 Property. In addition, as described in the Release Notification (Tri-State, 2004b): a) groundwater flow at the Property is to the northeast and this well is to the north-northwest, b) the Property 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 Property and the well are cross-gradient, and d) there are multiple groundwater divides between the Property and the well that would prevent groundwater migration from the Property to the well. Thus, the well is not directly downgradient of the Property and the well is located in an area where public water is available. As the Property 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.

C.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 Property; 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 Property. However, as discussed in Section 6.1 of this

Progress Report, the evaluation of vapor intrusion is inappropriate for this Site as OSHA regulations take precedence for the protection of worker safety.

C.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 Property; however, it is possible that additional buildings could be constructed on the Property 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 Property will be evaluated as a part of the VRP program.

C.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 Property.

Table 1. Analytical Results for Subsurface Solids (mg/kg)

Capitol Adhesives																						
Sample ID	Depth (ft bgs)	Date Sampled	Tetrachloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloro ethane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethenes	1,1,2,2- Tetrachloro ethane	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2,4- Trichloro benzene	1,2,4- Trimethyl benzene	1,2-Dibromo-3- chloro propane	1,2- Dibromo ethane	1,2- Dichloro benzene	1,2- Dichloro ethane	1,2- Dichloro propane	1,3,5- Trimethyl benzene
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	<0.006	0.029	0.35	<0.006	NA	<0.006	<0.006	<0.006	0.36	<0.006	NA
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	<0.0067	<0.0067	NA	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	NA
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	<0.0029	<0.0029	NA	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	NA
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	<0.0022	<0.0022	NA	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	NA
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	<0.008	<0.008	NA	<0.008	<0.008	<0.008	<0.008	<0.008	NA
MIP-8	2	10/16/08	0.37	2.4	0.068	0.04	2.878	0.014	0.031	<0.0026	0.045	<0.0013	0.0048	0.21	<0.0013	NA	<0.0013	<0.0013	<0.0013	0.14	<0.0013	NA
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	<0.007	<0.007	NA	<0.007	<0.007	<0.007	<0.007	<0.007	NA
MIP-12	12	10/16/08	0.73	0.38	<0.11	0.0056	1.1156	0.13	0.018	<0.0038	0.148	<0.0019	0.0022	0.21	<0.0019	NA	<0.0019	<0.0019	<0.0019	0.038	<0.0019	NA
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	<0.0069	<0.0069	NA	<0.0069	<0.0069	<0.0069	<0.0069	<0.0069	NA
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	<0.0076	<0.0076	NA	<0.0076	<0.0076	<0.0076	0.026	<0.0076	NA
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	<0.0038	<0.0038	NA	<0.0038	<0.0038	<0.0038	0.052	<0.0038	NA
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	<0.0027	0.047	<0.0027	NA	<0.0027	<0.0027	<0.0027	0.046	<0.0027	NA
MIP-13	6	10/16/08	1.5	2.6	2	0.66	6.76	0.42	0.44	0.03	0.89	<0.0027	0.017	1.8	<0.0027	NA	<0.0027	<0.0027	<0.0027	0.78	<0.0027	NA
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	<0.0059	<0.0059	NA	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	NA
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	<0.0071	<0.0071	NA	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	NA
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	<0.004	<0.00184	<0.0019	<0.0019	<1.9	<0.00184
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	<0.00171	<0.0017	<0.00428	<0.0017	<0.0017	<0.0017	<1.7	<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	<0.0018	0.0025	<0.0018	<0.0018	<0.00448	<0.0018	<0.0018	0.0067	6.7	<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	<0.336	<0.134	<0.134	<0.134	<134	<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	<0.005	<0.005	<0.005	<5	<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	<0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.011	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<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	<0.005	<0.012	0.215	<0.005	<0.005	<0.005	<0.005	<5	0.074
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	<0.013	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.005
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	<0.0029	<0.0029	NA	<0.0029	<0.0029	<0.0029	0.0069	<0.0029	NA
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	<0.0029	0.23	<0.0029	NA	<0.0029	<0.0029	<0.0029	0.18	<0.0029	NA
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	<2.8	<2.8	NA	<2.8	<2.8	<2.8	<2.8	<2.8	NA
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	<2.4	<2.4	NA	<2.4	<2.4	<2.4	<2.4	<2.4	NA
SO-4	1	3/10/09	0.74	1.2	0.48	<0.0063	2.42	<0.0032	0.035	<0.0063	0.035	<0.0032	0.0033	0.44	<0.0032	NA	<0.0032	<0.0032	<0.0032	0.042	<0.0032	NA
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	<0.11	0.63	<0.11	NA	<0.11	<0.11	<0.11	<0.11	<0.11	NA
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	<0.003	0.21	<0.003	NA	<0.003	<0.003	<0.003	0.053	<0.003	NA
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	<0.0062	<0.0062	NA	<0.0062	<0.0062	<0.0062	<0.0062	<0.0062	NA
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	<0.0026	0.19	<0.0026	NA	<0.0026	<0.0026	<0.0026	0.077	<0.0026	NA
SO-7	3	3/10/09	1.9	2.4	0.015	<0.01	4.315	0.072	0.18	<0.01	0.252	<0.0052	0.0072	0.89	<0.0052	NA	<0.0052	<0.0052	<0.0052	0.13	<0.0052	NA
SO-10																						

Table 1. Analytical Results for Subsurface Solids (mg/kg)

Capitol Adhesives																						
Sample ID	Depth (ft bgs)	Date Sampled	1,3- Dichloro benzene	1,4- Dichloro benzene	1,4-Dioxane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2- pentanone	Acetone	Benzene	Bromoform	Bromo methane	Carbon disulfide	Carbon tetra chloride	Chloro benzene	Chloroform	Chloro methane	cis/trans 1,2- Dichloro ethene	cis-1,3- Dichloro propene	Cyclo hexane	Dibromo chloro methane	Dichloro bromo methane
Solid Aquifer Matrix																						
GP001	6-8	8/9/05														<0.0054		<0.0054				
GP002	4-6	8/9/05														<0.0049		<0.0049				
GP003	2-4	8/9/05														<0.0048		<0.0048				
GP004	4-6	8/9/05														<0.004		<0.004				
GP005	4-6	8/9/05														<0.0045		<0.0045				
GP006	2-4	8/9/05														<0.0046		<0.0046				
GP009	2-4	8/10/05														<0.0043		<0.0043				
GP010	4-6	8/10/05														<0.067		0.093				
GP011	2-4	8/10/05														0.064		0.099				
GP012	4-6	8/10/05														0.29		0.72				
GP013	4-6	8/10/05														<0.0052		<0.0052				
MIP-1	2	10/16/08	<0.006	<0.006	<8.40E-02	<0.06	<0.012	<0.012	<0.12	<0.006	<0.006	<0.006	<0.012	<0.006	<0.006	0.73	<0.012	NA	<0.006	<0.006	<0.006	<0.006
MIP-1	5	10/16/08	<0.0067	<0.0067	<0.2	<0.067	<0.013	<0.013	<0.13	<0.0067	<0.0067	<0.0067	<0.013	<0.0067	<0.0067	<0.0067	<0.013	NA	<0.0067	<0.0067	<0.0067	<0.0067
MIP-1	9	10/16/08	<0.0029	<0.0029	<8.80E-02	<0.029	<0.0058	<0.0058	<0.058	<0.0029	<0.0029	<0.0029	<0.0058	<0.0029	<0.0029	<0.0029	<0.0058	NA	<0.0029	<0.0029	<0.0029	<0.0029
MIP-5	3	10/16/08	<0.0022	<0.0022	<0.067	<0.022	<0.0045	<0.0045	<0.045	<0.0022	<0.0022	<0.0022	<0.0045	<0.0022	<0.0022	<0.0022	<0.0045	NA	<0.0022	<0.0022	<0.0022	<0.0022
MIP-6	6	10/16/08	<0.008	<0.008	<0.24	<0.08	<0.016	<0.016	<0.16	<0.008	<0.008	<0.008	<0.016	<0.008	<0.008	<0.008	<0.016	NA	<0.008	<0.008	<0.008	<0.008
MIP-8	2	10/16/08	<0.0013	<0.0013	<0.039	<0.013	<0.0026	<0.0026	0.54	<0.0013	<0.0013	<0.0013	<0.0026	<0.0013	<0.0013	0.069	<0.0026	NA	<0.0013	<0.0013	<0.0013	<0.0013
MIP-8	4	10/16/08	<0.007	<0.007	<0.21	<0.07	<0.014	<0.014	<0.14	<0.007	<0.007	<0.007	<0.014	<0.007	<0.007	<0.007	<0.014	NA	<0.007	<0.007	<0.007	<0.007
MIP-12	12	10/16/08	<0.0019	<0.0019	<0.056	<0.019	<0.0038	<0.0038	<0.038	<0.0019	<0.0019	<0.0019	<0.0038	<0.0019	<0.0019	0.12	<0.0038	NA	<0.0019	<0.0019	<0.0019	<0.0019
MIP-12	4	10/16/08	<0.0069	<0.0069	<0.21	<0.069	<0.014	<0.014	<0.14	<0.0069	<0.0069	<0.0069	<0.014	<0.0069	<0.0069	<0.0069	<0.014	NA	<0.0069	<0.0069	<0.0069	<0.0069
MIP-12	6	10/16/08	<0.0076	<0.0076	<0.23	<0.076	<0.015	<0.015	<0.15	<0.0076	<0.0076	<0.0076	<0.015	<0.0076	<0.0076	<0.0076	<0.015	NA	<0.0076	<0.0076	<0.0076	<0.0076
MIP-13	1	10/16/08	<0.0038	<0.0038	1.4	0.12	<0.0076	0.0098	<0.076	0.0071	<0.0038	<0.0038	<0.0076	<0.0038	<0.0038	<0.0038	<0.0076	NA	<0.0038	0.014	<0.0038	<0.0038
MIP-13	3	10/16/08	<0.0027	<0.0027	0.510	<0.027	<0.0053	<0.0053	<0.053	<0.0027	<0.0027	<0.0027	<0.0053	<0.0027	<0.0027	0.029	<0.0053	NA	<0.0027	<0.0027	<0.0027	<0.0027
MIP-13	6	10/16/08	<0.0027	<0.0027	0.64	<0.027	<0.0054	<0.0054	<0.054	0.0066	<0.0027	<0.0027	<0.0054	<0.0027	<0.0027	1.4	<0.0054	NA	<0.0027	<0.0027	<0.0027	<0.0027
MIP-19	1	10/16/08	<0.0059	<0.0059	<0.18	<0.059	<0.012	<0.012	<0.12	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.012	NA	<0.0059	<0.0059	<0.0059	<0.0059
MIP-19	3	10/16/08	<0.0071	<0.0071	<0.21	<0.071	<0.014	<0.014	<0.14	<0.0071	<0.0071	<0.0071	<0.014	<0.0071	<0.0071	<0.0071	<0.014	NA	<0.0071	<0.0071	<0.0071	<0.0071
MW-1D	8-10	7/13/04	<0.0019	<0.0019	NA	<0.0461	<0.00921	<0.00921	<0.0461	<0.0019	<0.0019	<0.0019	<0.00184	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	NA	<0.0019	NA
MW-2D	8-10	7/13/04	<0.0017	<0.0017	NA	<0.0428	<0.00856	<0.00856	<0.0428	<0.0017	<0.0017	<0.0017	<0.0171	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	NA	<0.0017	NA
MW-3	8-10	7/14/04	<0.0018	<0.0018	NA	<0.0448	<0.00895	<0.00895	<0.0448	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018	0.0078	<0.0018	0.0025	<0.0018	NA	<0.0018	NA
MW-3D	13-15	7/14/04	<0.134	<0.134	NA	<3.36	<0.67	<0.67	<3.36	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	NA	<0.134	NA
MW-8	8-10	6/27/06	<0.005	<0.005	NA	<0.1	<0.05	<0.05	<0.1	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	NA	<0.005	NA
MW-9	8-10	6/27/06	<0.005	<0.005	NA	<0.1	<0.05	<0.05	<0.1	<0.005	<0.005											

Table 1. Analytical Results for Subsurface Solids (mg/kg)

Capitol Adhesives																				
Sample ID	Depth (ft bgs)	Date Sampled	Dichloro methane (Methylene chloride)	Ethyl benzene	Freon-11 (Trichlorofl uoromethan e	Freon-113	Freon-12 (Dichlorodif luorometha ne)	Isopropyl benzene	m&p- Xylene	Methyl acetate	Methyl tertbutyl ether (MTBE)	Methyl cyclo hexane	Naphthalene	n-Propyl benzene	o-Xylene	sec-Butyl benzene	Styrene	Toluene	trans-1,2- Dichloro ethene	trans-1,3- Dichloro propene
Solid Aquifer Matrix																				
GP001	6-8	8/9/05	<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		
GP003	2-4	8/9/05	<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		
GP005	4-6	8/9/05	<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		
GP009	2-4	8/10/05	<0.0043	<0.0043				<0.0043					<0.0043	<0.0043		<0.0043		<0.0043		
GP010	4-6	8/10/05	<0.067	<0.067				<0.067					<0.067	<0.067		<0.067		<0.067		
GP011	2-4	8/10/05	<0.061	<0.061				<0.061					<0.061	<0.061		<0.061		<0.061		
GP012	4-6	8/10/05	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		
MIP-1	2	10/16/08	<0.006	<0.006	<0.006	<0.012	<0.012	<0.006	<0.012	<0.006	<0.006	0.0094	NA	NA	<0.006	NA	<0.006	0.027	0.055	<0.006
MIP-1	5	10/16/08	<0.0067	<0.0067	<0.0067	<0.013	<0.013	<0.0067	<0.013	<0.0067	<0.0067	<0.0067	NA	NA	<0.0067	NA	<0.0067	<0.0067	<0.0067	<0.0067
MIP-1	9	10/16/08	<0.0029	<0.0029	<0.0029	<0.0058	<0.0058	<0.0029	<0.0058	<0.0029	<0.0029	<0.0029	NA	NA	<0.0029	NA	<0.0029	<0.0029	<0.0029	<0.0029
MIP-5	3	10/16/08	<0.0022	<0.0022	<0.0022	<0.0045	<0.0045	<0.0022	<0.0045	<0.0022	<0.0022	<0.0022	NA	NA	<0.0022	NA	<0.0022	<0.0022	<0.0022	<0.0022
MIP-6	6	10/16/08	<0.008	<0.008	<0.008	<0.016	<0.016	<0.008	<0.016	<0.008	<0.008	<0.008	NA	NA	<0.008	NA	<0.008	<0.008	<0.008	<0.008
MIP-8	2	10/16/08	0.11	<0.0013	<0.0013	<0.0026	<0.0026	<0.0013	<0.0026	<0.0013	<0.0013	0.015	NA	NA	<0.0013	NA	<0.0013	0.006	0.014	<0.0013
MIP-8	4	10/16/08	<0.007	<0.007	<0.007	<0.014	<0.014	<0.007	<0.014	<0.007	<0.007	<0.007	NA	NA	<0.007	NA	<0.007	0.0076	<0.007	<0.007
MIP-12	12	10/16/08	<0.0019	<0.0019	0.0027	<0.0038	<0.0038	<0.0019	<0.0038	<0.0019	<0.0019	<0.0019	NA	NA	<0.0019	NA	<0.0019	<0.0019	0.0077	<0.0019
MIP-12	4	10/16/08	<0.0069	<0.0069	<0.0069	<0.014	<0.014	<0.0069	<0.014	<0.0069	<0.0069	<0.0069	NA	NA	<0.0069	NA	<0.0069	<0.0069	<0.0069	<0.0069
MIP-12	6	10/16/08	<0.0076	<0.0076	<0.0076	<0.015	<0.015	<0.0076	<0.015	<0.0076	<0.0076	<0.0076	NA	NA	<0.0076	NA	<0.0076	<0.0076	<0.0076	<0.0076
MIP-13	1	10/16/08	0.12	<0.0038	<0.0038	0.073	<0.0076	<0.0038	<0.0076	<0.0038	<0.0038	0.18	NA	NA	<0.0038	NA	<0.0038	0.096	0.02	<0.0038
MIP-13	3	10/16/08	0.067	<0.0027	<0.0027	<0.0053	<0.0053	<0.0027	<0.0053	<0.0027	<0.0027	0.031	NA	NA	<0.0027	NA	<0.0027	0.02	0.011	<0.0027
MIP-13	6	10/16/08	1.9	<0.0027	0.0067	<0.0054	<0.0054	<0.0027	<0.0054	<0.0027	<0.0027	0.013	NA	NA	<0.0027	NA	<0.0027	0.017	0.058	<0.0027
MIP-19	1	10/16/08	<0.0059	<0.0059	<0.0059	<0.012	<0.012	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	NA	NA	<0.0059	NA	<0.0059	<0.0059	<0.0059	<0.0059
MIP-19	3	10/16/08	<0.0071	<0.0071	<0.0071	<0.014	<0.014	<0.0071	<0.014	<0.0071	<0.0071	<0.0071	NA	NA	<0.0071	NA	<0.0071	<0.0071	<0.0071	<0.0071
MW-1D	8-10	7/13/04	<0.0046	<0.0019	<0.0019	NA	<0.0019	<0.00184	NA	NA	NA	NA	<0.00461	<0.00184	NA	<0.00184	<0.00184	<0.0019	<0.0019	<0.0019
MW-2D	8-10	7/13/04	<0.0043	<0.0017	<0.0017	NA	<0.0017	<0.00171	NA	NA	NA	NA	<0.00428	<0.00171	NA	<0.00171	<0.00171	0.0026	<0.0017	<0.0017
MW-3	8-10	7/14/04	<0.0045	<0.0018	<0.0018	NA	<0.0018	<0.0018	NA	NA	NA	NA	<0.0048	<0.0018	NA	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
MW-3D	13-15	7/14/04	<0.336	<0.134	<0.134	NA	<0.134	<0.134	NA	NA	NA	NA	<0.366	<0.134	NA	<0.134	<0.134	<0.134	<0.134	<0.134
MW-8	8-10	6/27/06	<0.005	<0.005	<0.005	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<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	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
MW-15	8-10	6/28/06	<0.005	0.022	<0.005	NA	<0.01	0.005	0.085	NA	NA	NA	0.14	0.026	0.055	0.005	<0.005	0.027	<0.005	<0.005
MW-16	8-10	6/27/06	<0.005	<0.005	<0.005	NA	<0.01	<0.005	<0.01	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
SO-2	1	3/10/09	<0.0029	<0.0029	<0.0029	<0.0059	<0.0059	<0.0029	<0.0059	<0.0029	<0.0029	<0.0029	NA	NA	<0.0029	NA	<0.0029	0.051	0.0047	<0.0029
SO-2	3	3/10/09	<0.0029	<0.0029	<0.0029	<0.0059	<0.0059	<0.0029	<0.0059	<0.0029	<0.0029	0.087	NA	NA	<0.0029	NA	<0.0029	0.05	0.026	<0.0029
SO-3	1	3/10/09	<2.8	<2.8	<2.8	<5.7	<5.7	<2.8	<5.7	<2.8	<2.8	130	NA	NA	<2.8	NA	<2.8	3.3	<2.8	<2.8
SO-3	3	3/10/09	4.5	<2.4	<2.4	<4.8	<4.8	<2.4	<4.8	<2.4	<2.4	<2.4	NA	NA	<2.4	NA	<2.4	<2.4	<2.4	<2.4
SO-4	1	3/10/09	<0.0032	<0.0032	<0.0032	<0.0063	<0.0063	<0.0032	<0.0063	<0.0032	<0.0032	0.032	NA	NA	<0.0032	NA	<0.0032	<0.0032	0.0055	<0.0032
SO-4	3	3/10/09	<0.11	<0.11	<0.11	<0.23	<0.23	<0.11	<0.23	<0.11	<0.11	<0.11	NA	NA	<0.11	NA	<0.11	<0.11	<0.11	<0.11
SO-5	5	3/10/09	<0.003	<0.003	<0.003	<0.006	<0.006	<0.003	<0.006	<0.003	<0.003	<0.003	NA	NA	<0.003	NA	<0.003	<0.003	0.015	<0.003
SO-5	9	3/10/09	<0.0062	<0.0062	<0.0062	<0.012	<0.012	<0.0062	<0.012	<0.0062	<0.0062	<0.0062	NA	NA	<0.0062	NA	<0.0062	<0.0062	<0.0062	<0.0062
SO-6	5	3/10/09	<0.0026	<0.0026	<0.0026	<0.0052	<0.0052	<0.0026	<0.0052	<0.0026	<0.0026	<0.0026	NA	NA	<0.0026	NA	<0.0026	<0.0026	0.017	<0.0026
SO-7	3	3/10/09	0.049	<0.0052	<0.0052	<0.01	<0.01	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	NA	NA	<0.0052	NA	<0.0052	<0.0052	0.025	<0.0052
SO-10	1	10/12/10	5.9	<0.121	<0.121	<0.241	<0.241	<0.121	0.34	0.13	<0.121	0.26	NA	NA	0.16	NA	<0.121	1.1	0.17	<0.121
SS-AST-1	1	1/12/09	<0.00316	<0.00316	<0.00316	0.155	<0.00632	<0.00316	0.0156	<0.00316	<0.00316	0.0494	NA	NA	<0.00316	NA	<0.00316	0.0105	0.00856	<0.00316
SS-AST-2	1	1/12/09	3.8	0.012	<0.00266	<0.00532	<0.00532	<0.00266	0.0534	<0.00266	<0.00266	0.0123	NA	NA	0.021	NA	<0.00266	2.17	0.187	<0.00266
SS-BLDG-1	1	1/12/09	<0.0024	<0.0024	<0.0024	0.012	<0.0048	<0.0024	<0.0048	<0.0024	<0.0024	<0.0024	NA	NA	<0.0024	NA	<0.0024	<0.0024	<0.0024	<0.0024
SS-BLDG-1	5	1/12/09	<0.00284	<0.00284	<0.00284	0.0615	<0.00568	<0.00284	<0.00568	<0.00284	<0.00284	0.00426	NA	NA	<0.00284	NA	<0.00284	<0.00284	<0.00284	<0.00284
SS-BLDG-2	5	1/12/09	<0.																	

Table 1. Analytical Results for Subsurface Solids (mg/kg)
Capitol Adhesives

Sample ID	Depth (ft bgs)	Date Sampled	Tetrachloro ethene	Trichloro ethene	cis-1,2- Dichloro ethene	Vinyl chloride	Total Chlorinated Ethenes	1,1,1- Trichloro ethane	1,1- Dichloro ethane	Chloro ethane	Total Chlorinated Ethaness	1,1,2,2- Tetrachloro ethane	1,1,2- Trichloro ethane	1,1- Dichloro ethene	1,2,4- Trichloro benzene	1,2,4- Trimethyl benzene	1,2-Dibromo-3- chloro propane	1,2- Dibromo ethane	1,2- Dichloro benzene	1,2- Dichloro ethane	1,2- Dichloro propane	1,3,5- Trimethyl benzene
Vadose Zone Soil																						
GP007	2-4	8/9/05	<0.0045	<0.0045	<0.0045		ND	<0.0045			ND			<0.0045		<0.0045				<0.0045	<4.5	<0.0045
GP008	2-4	8/9/05	<0.0054	<0.0054	<0.0054		ND	<0.0054			ND			<0.0054		<0.0054				<0.0054	<5.4	<0.0054
SS-BLDG-2	1	1/12/09	<0.00268	<0.00268	<0.00268	<0.00536	ND	<0.00268	<0.00268	<0.00536	ND	<0.00268	<0.00268	<0.00268	<0.00268	NA	<0.00268	<0.00268	<0.00268	<0.00268	<0.00268	NA
SS-BLDG-3	1	1/12/09	<0.00301	<0.00301	<0.00301	<0.00602	ND	<0.00301	<0.00301	<0.00602	ND	<0.00301	<0.00301	<0.00301	<0.00301	NA	<0.00301	<0.00301	<0.00301	<0.00301	<0.00301	NA
SS-BLDG-4	1	1/12/09	<0.00299	0.161	<0.00299	<0.00598	0.161	<0.00299	<0.00299	<0.00598	ND	<0.00299	<0.00299	<0.00299	<0.00299	NA	<0.00299	<0.00299	<0.00299	<0.00299	<0.00299	NA
Other (sediment)																						
South Ditch	0-2	6/19/04	<0.0064	0.012	0.016		0.028	<0.0064			ND			<0.0064						<0.0064	<6.4	

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



Table 1. Analytical Results for Subsurface Solids (mg/kg)

Capitol Adhesives

Sample ID	Depth (ft bgs)	Date Sampled	1,3- Dichloro benzene	1,4- Dichloro benzene	1,4-Dioxane	2-Butanone (MEK)	2-Hexanone	4-Methyl-2- pentanone	Acetone	Benzene	Bromoform	Bromo methane	Carbon disulfide	Carbon tetra chloride	Chloro benzene	Chloroform	Chloro methane	cis/trans1,2- Dichloro ethene	cis-1,3- Dichloro propene	Cyclo hexane	Dibromo chloro methane	Dichloro bromo methane
Vadose Zone Soil																<0.0045		<0.0045				
GP007	2-4	8/9/05														<0.0054		<0.0054				
GP008	2-4	8/9/05																				
SS-BLDG-2	1	1/12/09	<0.00268	<0.00268	NA	<0.0268	<0.00536	<0.00536	<0.0536	<0.00268	<0.00268	<0.00268	<0.00536	<0.00268	<0.00268	<0.00268	<0.00536	NA	<0.00268	<0.00268	<0.00268	<0.00268
SS-BLDG-3	1	1/12/09	<0.00301	<0.00301	NA	<0.0301	<0.00602	<0.00602	<0.0602	<0.00301	<0.00301	<0.00301	<0.00602	<0.00301	<0.00301	<0.00301	<0.00602	NA	<0.00301	<0.00301	<0.00301	<0.00301
SS-BLDG-4	1	1/12/09	<0.00299	<0.00299	NA	<0.0299	<0.00598	<0.00598	<0.0598	<0.00299	<0.00299	<0.00299	<0.00598	<0.00299	<0.00299	<0.00299	<0.00598	NA	<0.00299	<0.00299	<0.00299	<0.00299
Other (sediment)																						
South Ditch	0-2	6/19/04														<0.0064		<0.0064				

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



Table 1. Analytical Results for Subsurface Solids (mg/kg)

Capitol Adhesives																				
Sample ID	Depth (ft bgs)	Date Sampled	Dichloro methane (Methylene chloride)	Ethyl benzene	Freon-11 (Trichlorofl uoromethan e	Freon-113	Freon-12 (Dichlorodif luorometha ne)	Isopropyl benzene	m&p- Xylene	Methyl acetate	Methyl tertbutyl ether (MTBE)	Methyl cyclo hexane	Naphthalene	n-Propyl benzene	o-Xylene	sec-Butyl benzene	Styrene	Toluene	trans-1,2- Dichloro ethene	trans-1,3- Dichloro propene
Vadose Zone Soil																				
GP007	2-4	8/9/05	<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		
SS-BLDG-2	1	1/12/09	<0.00268	<0.00268	<0.00268	<0.00536	<0.00536	<0.00268	<0.00536	<0.00268	<0.00268	<0.00268	NA	NA	<0.00268	NA	<0.00268	<0.00268	<0.00268	<0.00268
SS-BLDG-3	1	1/12/09	<0.00301	<0.00301	<0.00301	<0.00602	<0.00602	<0.00301	<0.00602	<0.00301	<0.00301	<0.00301	NA	NA	<0.00301	NA	<0.00301	<0.00301	<0.00301	<0.00301
SS-BLDG-4	1	1/12/09	<0.00299	<0.00299	<0.00299	<0.00598	<0.00598	<0.00299	<0.00598	<0.00299	<0.00299	<0.00299	NA	NA	<0.00299	NA	<0.00299	<0.00299	<0.00299	<0.00299
Other (sediment)																				
South Ditch	0-2	6/19/04	0.0082	<0.0064																

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 2. 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
Carbon Dioxide	> 2 x Bkg	1								
Alkalinity	> 2 x Bkg	1	181	160	233	915				126
Chloride	> 2 x Bkg	2	34	15	9.7	33				6.5
Hydrogen	> 1 nM	3								
Volatile Fatty Acids	> 0.1 mg/L	2								
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 3. Anaerobic Microbial Testing Results (October, 2010)

Test 1: Plate Counting						Test 2: CENSUS				
	Anaerobic CFU/mL at 48 hrs	% Strain 1A (low discrimination)	% Strain 5A (<i>Achromobacter denitrificans</i>)	% Strain 6 (<i>Kocuria kristinae</i>)	% Strain 7 (low discrimination)	<i>Dehalococcoid</i> <i>es spp.</i> (cells/mL)	tceA Reductase	vinyl chloride reductase	bva Reductase	<i>Dehaloba</i> <i>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

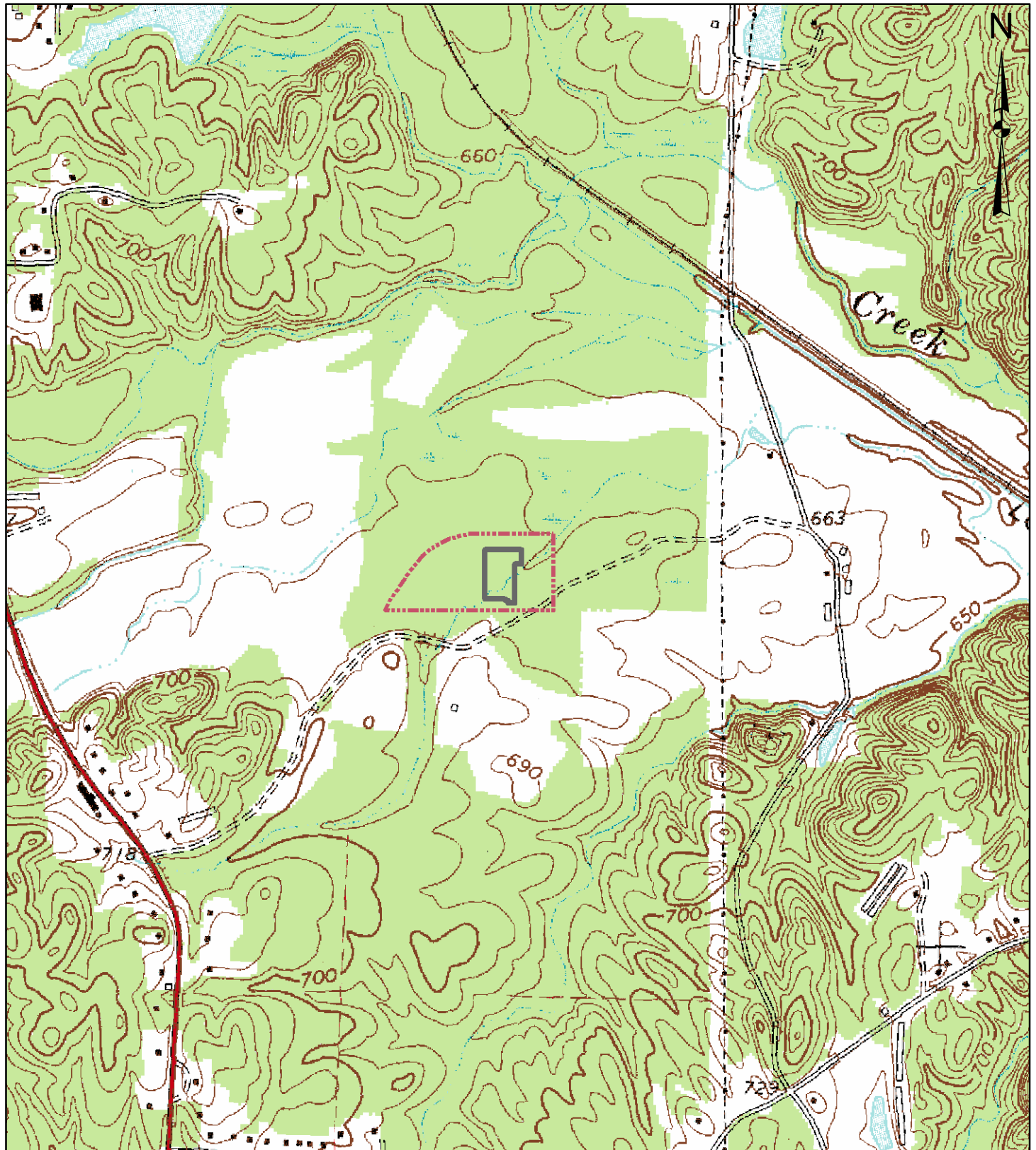
Table 4. Aerobic Microbial Testing Results (October, 2010)

Test 1: Plate Counting						
	Aerobic CFU/mL at 48 hrs	% Strain 1 (<i>Kocuria kristinae</i>)	% Strain 2 (<i>Micrococcus luteus / lylae</i>)	% Strain 3 (<i>Pseudomonas aeruginosa</i>)	% Strain 4 (<i>Pseudomonas aeruginosa</i>)	% Strain 5 (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

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

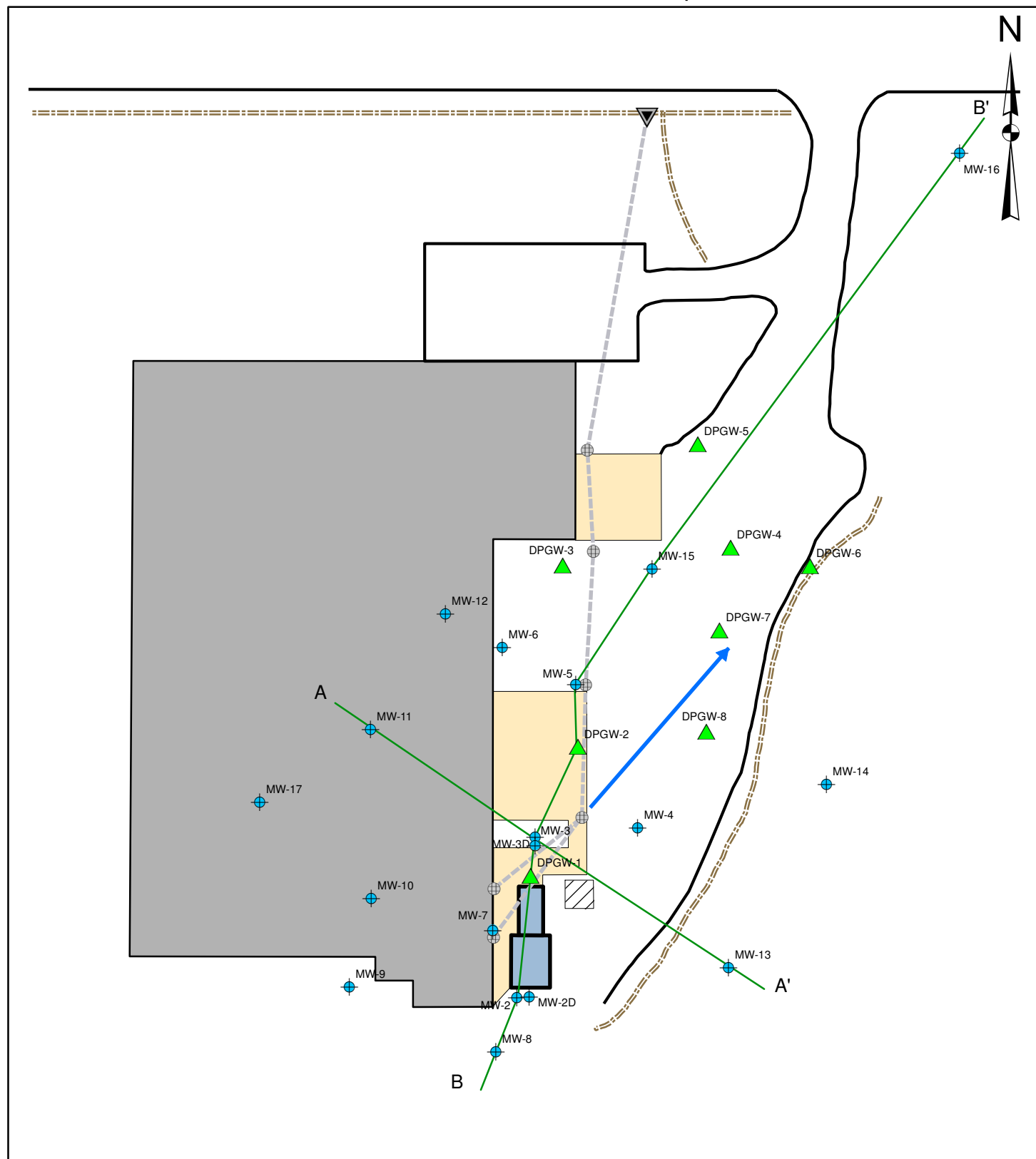
Legend

- 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

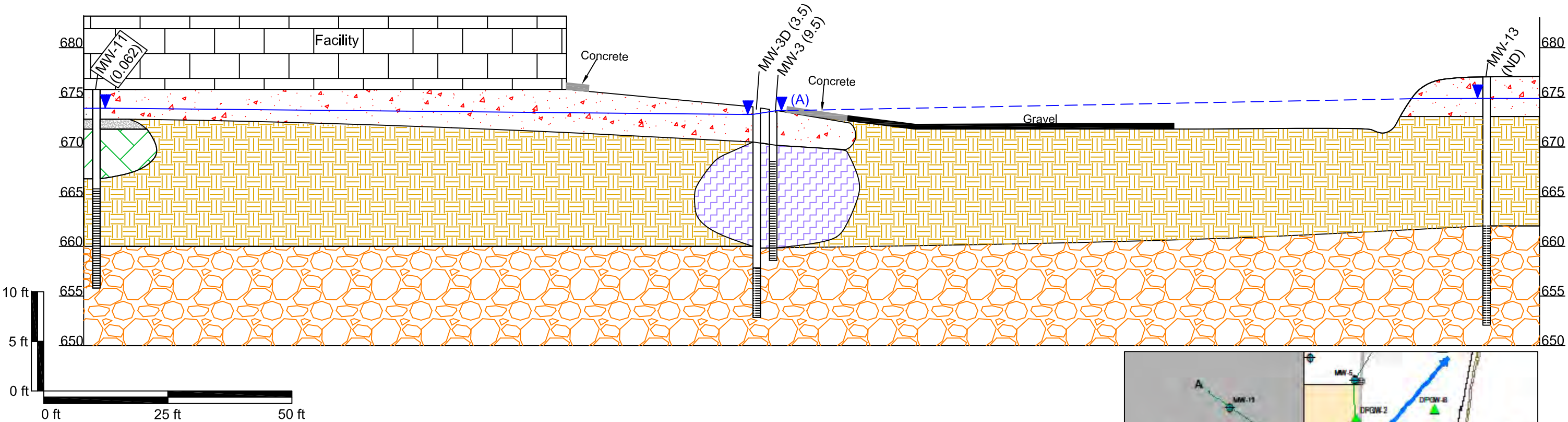
- General Direction of Groundwater Flow
- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

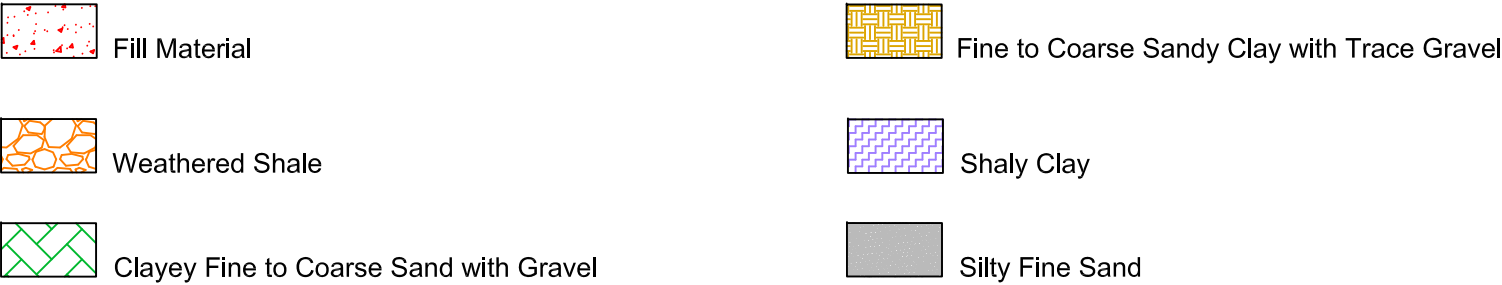
Lithological
Cross Section A-A'
(Profile)

West
A

East
A'



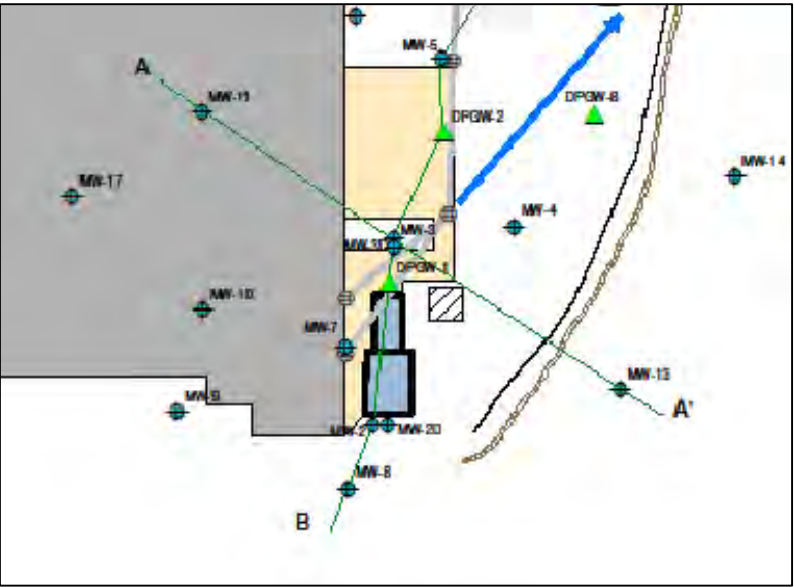
Legend



(9.8) Total chlorinated ethanes and ethenes (mg/L) in Oct. 2010; includes TCA, DCA, CA, PCE, TCE, DCE, VC;

▼ Historical "High" recorded water table

(A) Well was artesian at time of gauging



Plan View (Not to scale)



Environmental Planning Specialists, Inc.
900 Ashwood Parkway, Suite 350
Atlanta, GA 30338
Phone: (404) 315-9113
Fax: (404) 315-8509

DES			DATE: May 2011
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
A-A'

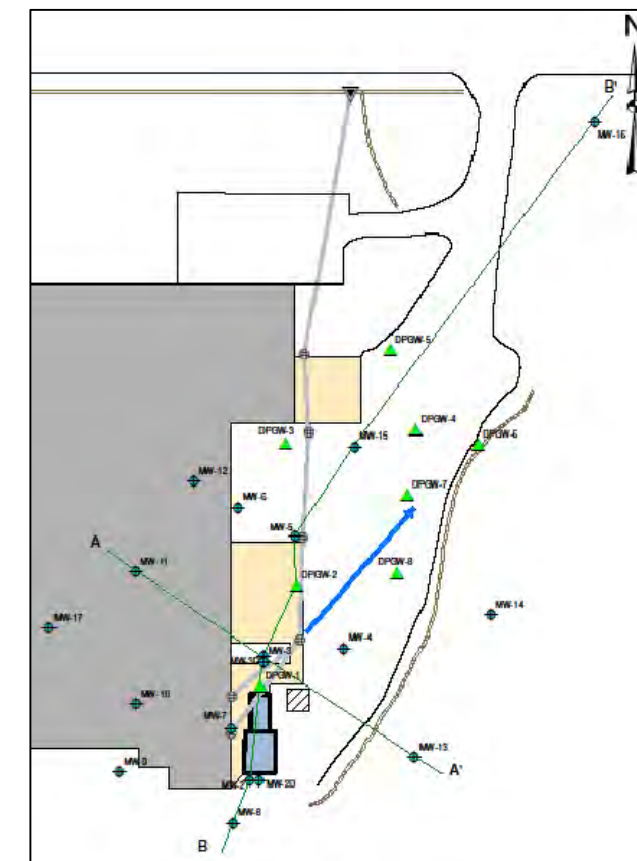
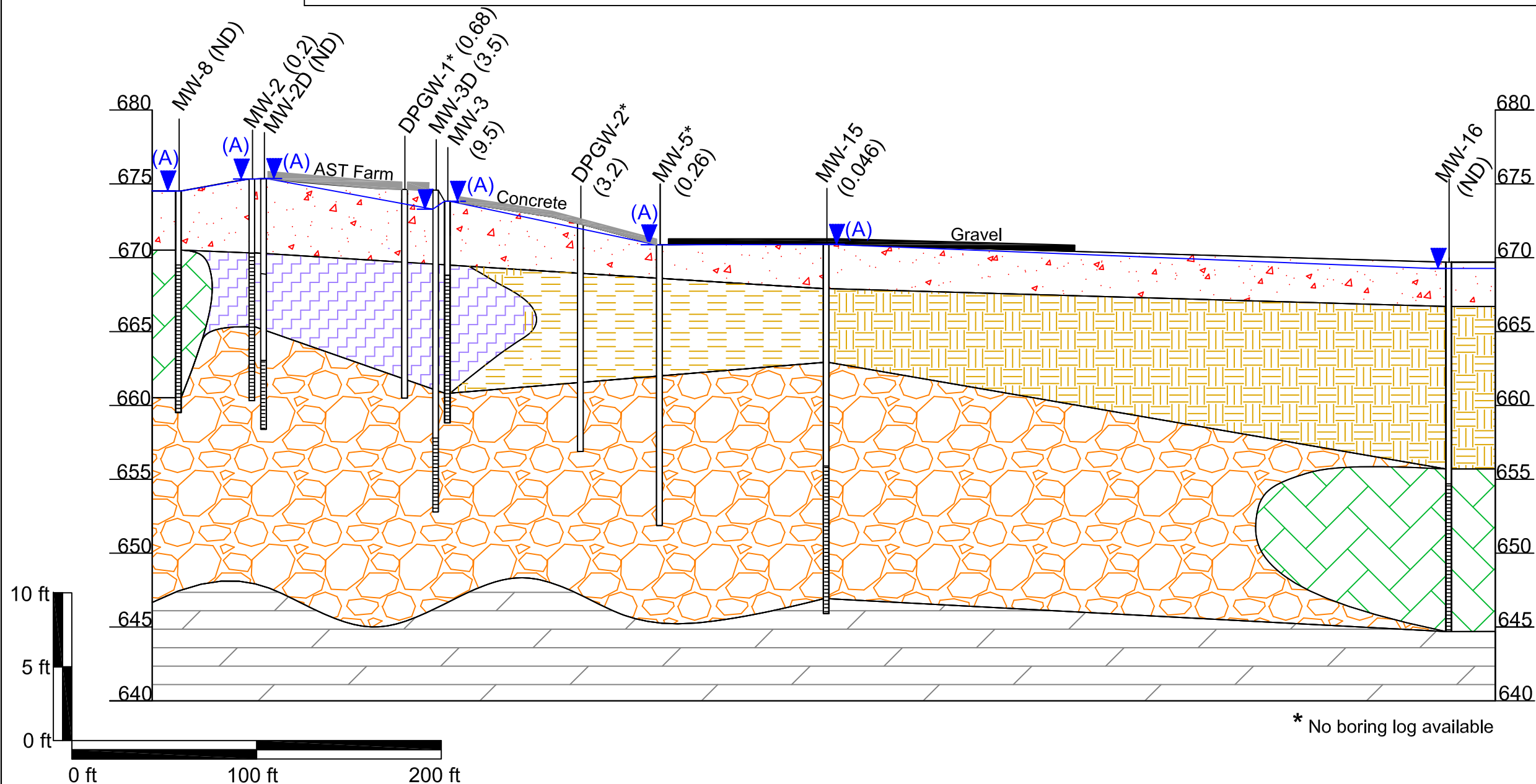
FIGURE

4

South
B

North
B'

Lithological
Cross Section B-B'
(Profile)



Plan View (Not to scale)

Legend

- Fine to Coarse Sandy Clay with Trace Gravel
- Weathered Shale
- Clayey Fine to Coarse Sand with Gravel

- Fill Material
- Shale Rock
- Shaly Clay

(3.2) Total chlorinated ethanes and ethenes (mg/L) in Oct. 2010; includes TCA, DCA, CA, PCE, TCE, DCE, VC;

- Historical "High" recorded water table
- Well was artesian at time of gauging

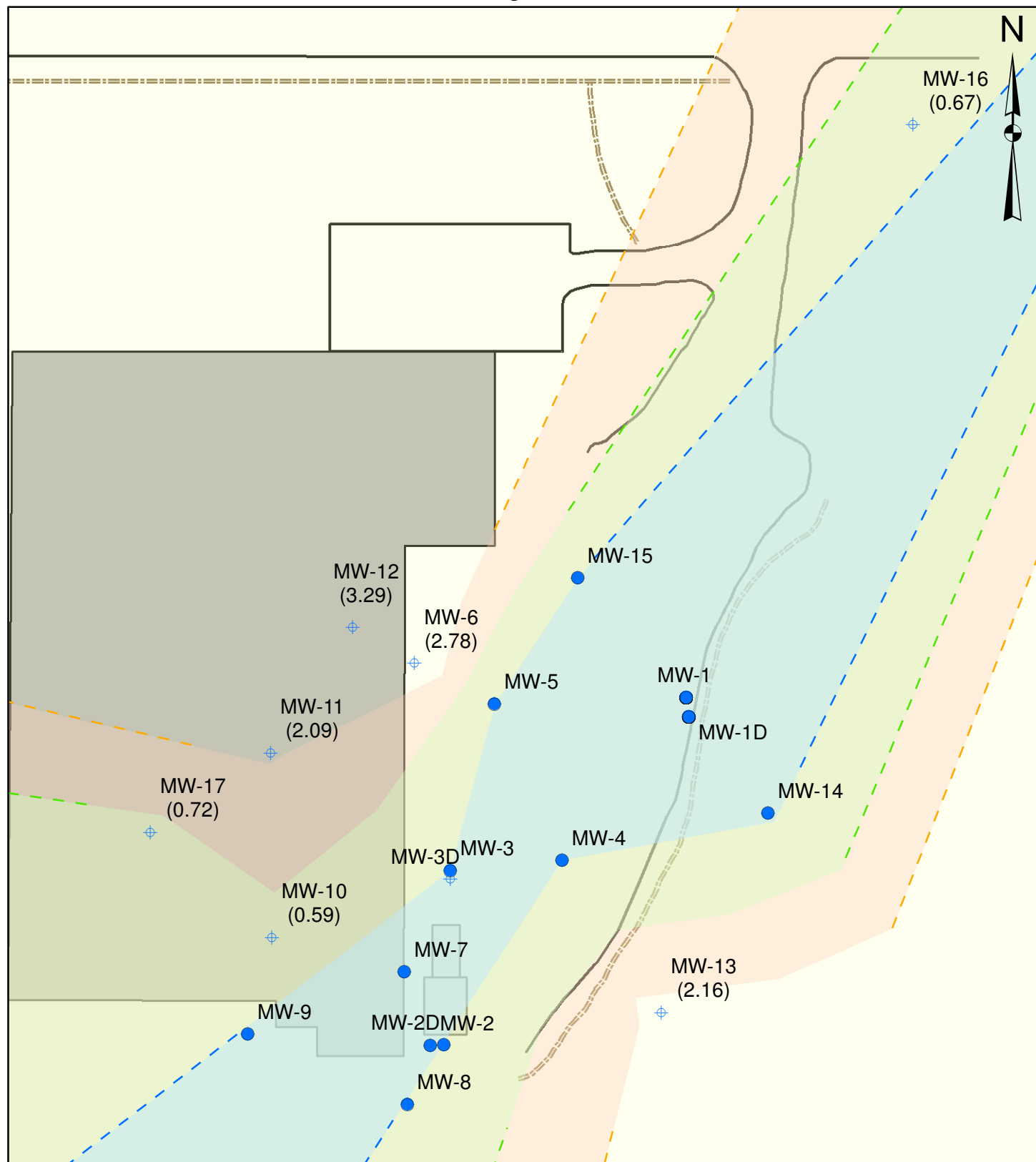


EPS is about the business of the environment. SM

Environmental Planning Specialists, Inc.
900 Ashwood Parkway, Suite 350
Atlanta, GA 30338
Phone: (404) 315-9113
Fax: (404) 315-8509

DES			DATE: May 2011	
DRN	JD	10/10	Capitol Adhesives 300 Cross Plains Blvd. Dalton, GA 30721	
CHK				
REV	FR	5/11		
APP				
PROJ MGR	TB	10/10	Lithological Cross-Section B-B'	
OPER				
				FIGURE 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

Figure 7. MW-5 PCE Degradation Time Series

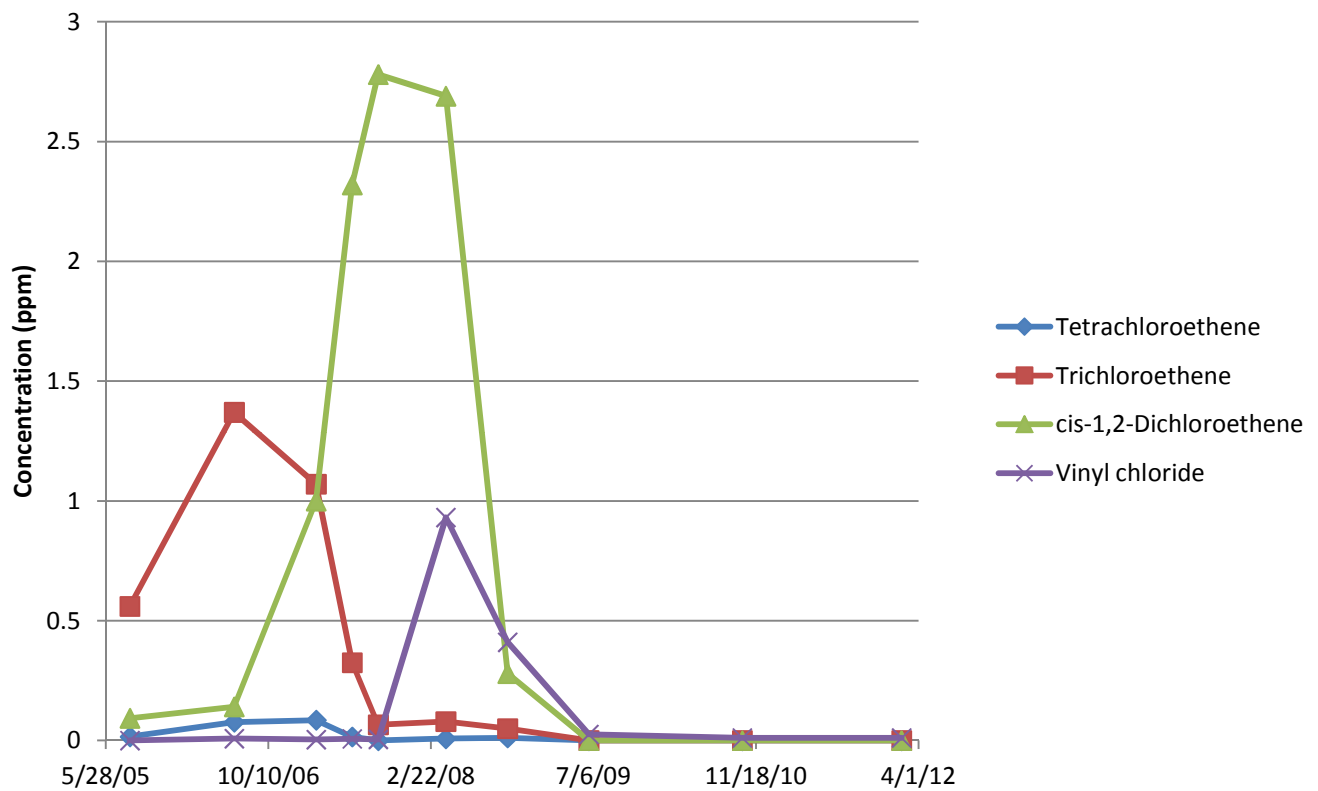
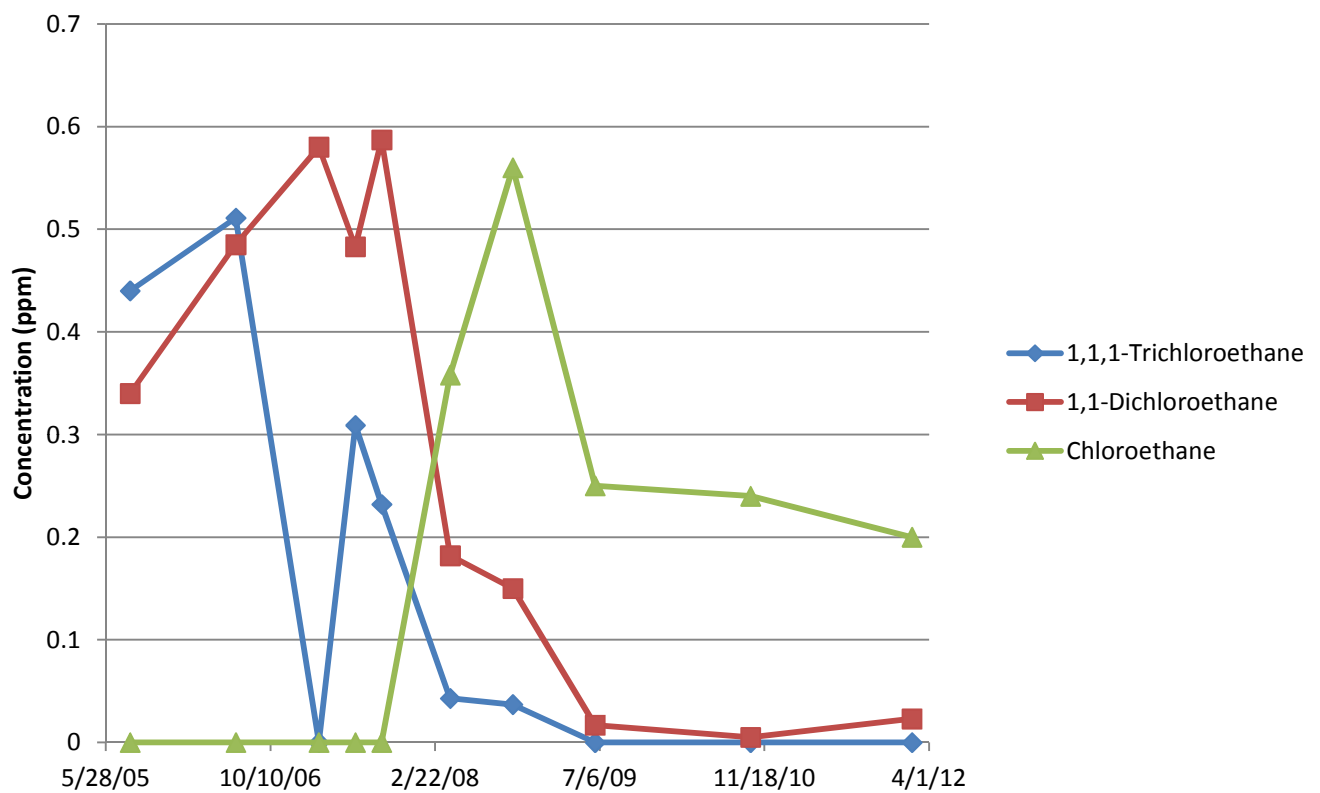
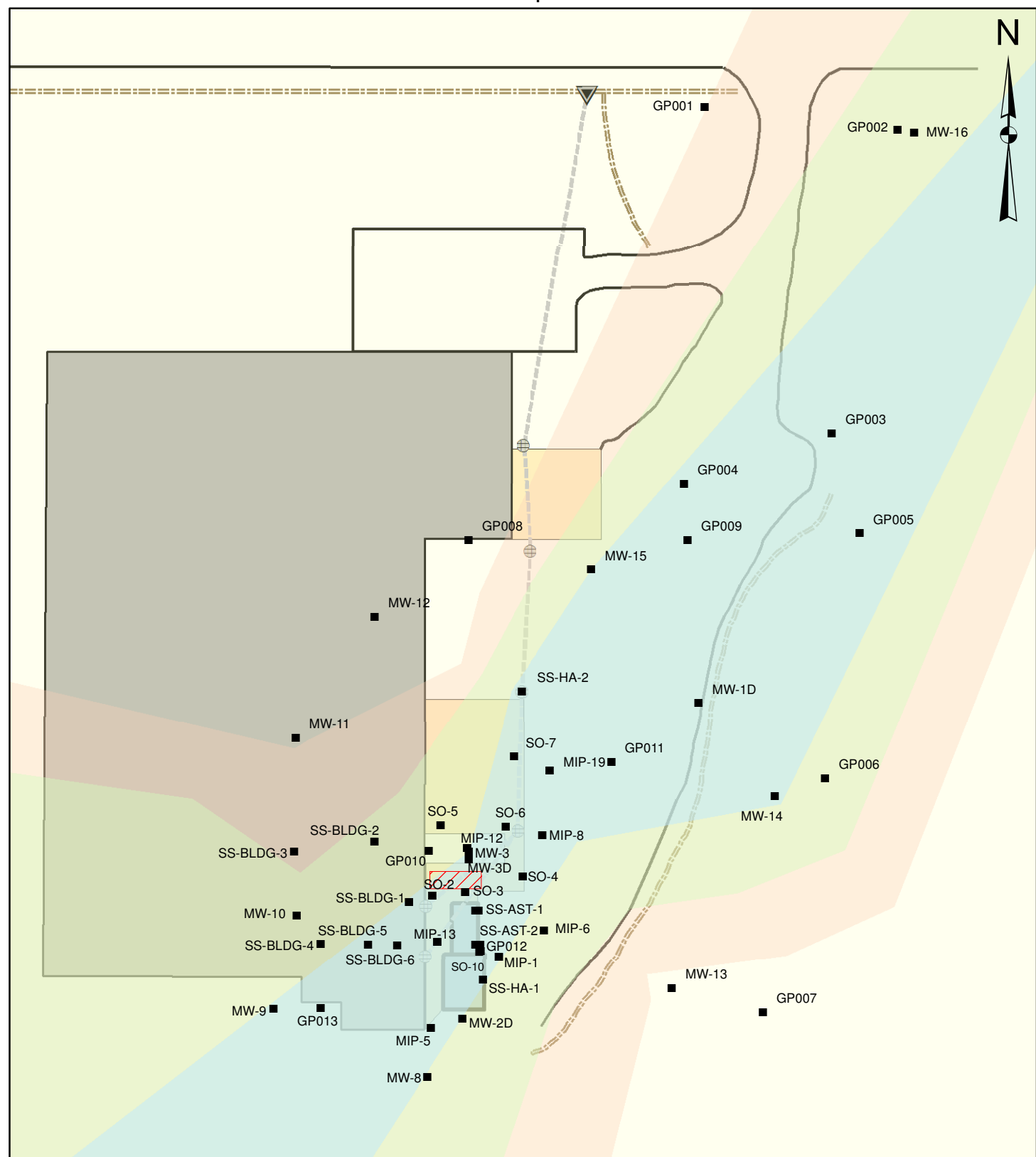


Figure 8. MW-5 TCA Degradation Time Series



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

-  Surface Drainage Ditch
 Transportation Area
 Subgrade Storm/Drain Lines
 Open Drains
 Storm Water Outfall

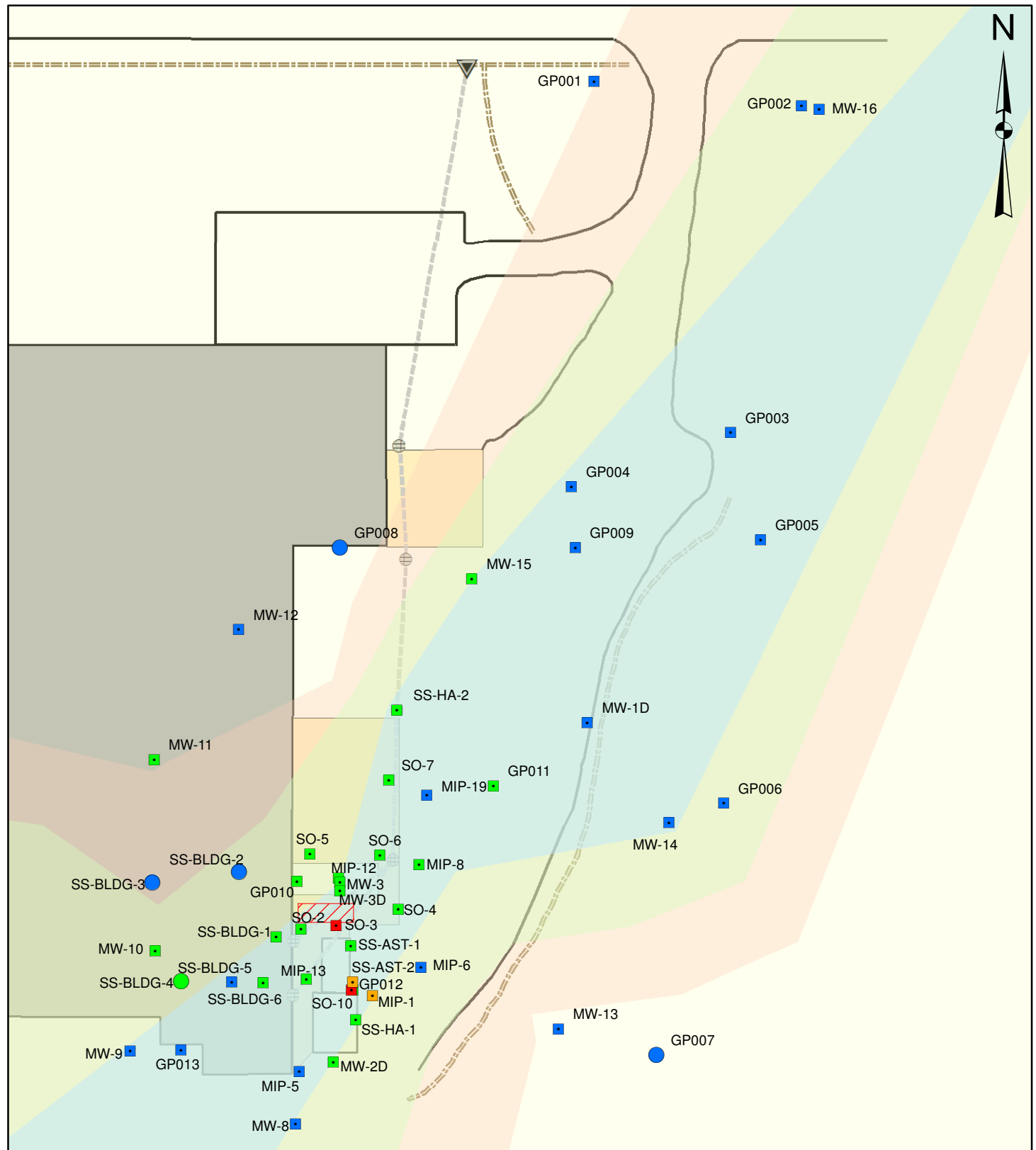
-  Location of Spill (approx)
 AST Containment
 Facility
 Concrete Surface

The map displays the study area with various monitoring points and geological features. The background is divided into colored regions: light blue (water), light green (land), and light orange (land). A north arrow is located in the top right corner. The map includes the following labels and points:

- GP001**: A blue square point near the top center.
- GP002**: A blue square point near the top right.
- MW-16**: A blue square point near the top right.
- GP003**: A blue square point in the upper right quadrant.
- GP004**: A blue square point in the upper right quadrant.
- GP009**: A blue square point in the upper right quadrant.
- GP005**: A blue square point in the upper right quadrant.
- MW-15**: A blue square point in the upper right quadrant.
- GP008**: A blue circle point near the center.
- MW-12**: A blue square point near the center.
- MW-11**: A blue square point near the center.
- SS-HA-2**: A green square point near the center.
- SO-7**: A green square point near the center.
- MIP-19**: A blue square point near the center.
- GP011**: A blue square point near the center.
- MW-1D**: A blue square point near the center.
- GP006**: A blue square point near the center.
- MW-14**: A blue square point near the center.
- SS-BLDG-3**: A blue circle point near the bottom left.
- SS-BLDG-2**: A blue circle point near the bottom left.
- GP010**: A blue square point near the bottom left.
- SO-5**: A green square point near the bottom left.
- SO-6**: A green square point near the bottom left.
- MIP-12**: A green square point near the bottom left.
- MW-3**: A green square point near the bottom left.
- MW-3D**: A green square point near the bottom left.
- SO-4**: A green square point near the bottom left.
- SO-2**: A red square point near the bottom left.
- SO-3**: A green square point near the bottom left.
- SS-BLDG-1**: A blue square point near the bottom left.
- SS-BLDG-5**: A blue square point near the bottom left.
- MIP-13**: A green square point near the bottom left.
- SS-AST-1**: A green square point near the bottom left.
- SS-AST-2**: A blue square point near the bottom left.
- MIP-6**: A blue square point near the bottom left.
- GP012**: A green square point near the bottom left.
- MIP-1**: A green square point near the bottom left.
- SS-HA-1**: A green square point near the bottom left.
- MW-9**: A blue square point near the bottom left.
- GP013**: A blue square point near the bottom left.
- MIP-5**: A blue square point near the bottom left.
- MW-2D**: A blue square point near the bottom left.
- MW-13**: A blue square point near the bottom right.
- GP007**: A blue circle point near the bottom right.
- MW-8**: A blue square point near the bottom right.

Figure No. 10

Capitol Adhesives Total Chlorinated Ethenes* in Subsurface Solids



0 50 100
Feet

Total VOCs* (mg/kg)

- ND
- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- > 60

Location of 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 ethenes = PCE, TCE, DCE, and VC

APPENDIX D

LABORATORY DATA REPORT AND WELL FORMS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 16, 2012

Timmerly Bullman
Environmental Planning Specialists, Inc.
1050 Crown Pointe Parkway
Atlanta GA 30338

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

RE: Capitol Adhesives

Dear Timmerly Bullman:

Order No: 1202819

Analytical Environmental Services, Inc. received 23 samples on 2/9/2012 1:15:00 PM for the analyses presented in following report.

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

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/11-06/30/12.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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

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

James Forrest
Project Manager



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1202819

Date: 2-9-12 Page 1 of 2

COMPANY: EPS		ADDRESS: 1050 Con-um Point Hwy Ste 550 Atlanta GA 30338		PHONE: 404-315-9113		FAX:		SIGNATURE: <i>[Signature]</i>		SAMPLE ID		SAMPLED		DATE		TIME		Grab		Composite		Matrix (See codes)		ANALYSIS REQUESTED		PRESERVATION (See codes)		REMARKS		No # of Containers			
#																																	
1	12039-MW-2					2-8-12	1435																										
2	12039-MW-2D					2-8-12	1105																										
3	12040-MW-3					2-9-12	0920																										
4	12039-MW-3D					2-8-12	1620																										
5	12039-MW-4					2-8-12	1300																										
6	12040-MW-5					2-9-12	0850																										
7	12039-MW-6					2-8-12	1335																										
8	12040-MW-7					2-9-12	0915																										
9	12039-MW-8					2-8-12	1045																										
10	12039-MW-9					2-8-12	1045																										
11	12038-MW-10					2-7-12	1432																										
12	12038-MW-11					2-7-12	1231																										
13	12039-DUP-1					2-8-12	—																										
14	12039-DUP-2					2-8-12	—																										
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 2-9-12 1315		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 2-9-12 1315		PROJECT NAME: Capital Adhesives		PROJECT #:		SITE ADDRESS: Dalton, GA		SEND REPORT TO: <i>[Signature]</i>		INVOICE TO: <i>[Signature]</i>		QUOTE #:		PO#:		STATE PROGRAM (if any):		E-mail? Y/N:		Fax? Y/N:		DATA PACKAGE: I II III IV		Total # of Containers: 48			
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT / VIA:		IN / VIA:		CLIENT: FedEx		UPS		MAIL		COURIER		GREYHOUND		OTHER:		TURNAROUND TIME REQUEST		Standard 5 Business Days		2 Business Day Rush		Next Business Day Rush		Same Day Rush (auth req.)		Other: 00000			

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 NA = None

White Copy - Original; Yellow Copy - Client



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

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

CHAIN OF CUSTODY

Work Order: 1202819

Date: 2-9-12 Page 2 of 2

COMPANY:		ADDRESS:		PHONE:		FAX:		SIGNATURE:		SAMPLE ID		SAMPLED		DATE		TIME		Grab		Composite		Matrix (See codes)		ANALYSIS REQUESTED		Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.		No # of Containers	
#																													
1	12038-MV-12																												
2	12039-MV-13																												
3	12039-MV-14																												
4	12039-MV-15																												
5	12039-MV-16																												
6	12038-MV-17																												
7	12040-KINS-1																												
8	12040-KINS-2																												
9																													
10																													
11																													
12																													
13																													
14																													
RELINQUISHED BY:		DATE/TIME		RECEIVED BY:		DATE/TIME		SHIPMENT METHOD		VIA:		CLIENT		FedEx		UPS		MAIL		COURIER		GREYHOUND		OTHER		SPECIAL INSTRUCTIONS/COMMENTS:		SPECIAL INSTRUCTIONS/COMMENTS:	
1. [Signature]		2-9-12 1315		1. [Signature]		2-9-12		OUT / /		IN / /		OUT / /		IN / /		OUT / /		IN / /		OUT / /		IN / /		OUT / /		IN / /		OUT / /	
2. [Signature]		2-9-12 1315		2. [Signature]		2-9-12		13.15		13.15		13.15		13.15		13.15		13.15		13.15		13.15		13.15		13.15		13.15	
3. [Signature]		2-9-12 1315		3. [Signature]		2-9-12																							
PROJECT NAME:		PROJECT #:		SITE ADDRESS:		SEND REPORT TO:		INVOICE TO:		(IF DIFFERENT FROM ABOVE)		QUOTE #:		PO#:		STATE PROGRAM (if any):		E-mail? Y / N:		Fax? Y / N:		DATA PACKAGE: I II III IV		RECEIPT		Total # of Containers		Turnaround Time Request	
Capital Adhesives		16		Dalton, GA		tballman@envplaninc.com		tballman@envplaninc.com																					
Standard 5 Business Days																													
2 Business Day Rush																													
Next Business Day Rush																													
Same Day Rush (auth req.)																													
Other																													

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.

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

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

White Copy - Original; Yellow Copy - Client

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab ID: 1202819

Case Narrative

Sample Receiving Nonconformance:

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

Volatiles Organic Compounds Analysis by Method 8260B:

Chloroform, Vinyl chloride, 1,1-Dichloroethane, Freon-113, 1,1,1-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, cis-1,2-Dichloroethene, Trichloroethene, & Tetrachloroethene value for sample 1202819-003A is "E" qualified indicating an estimated value over linear calibration range. Sample could not be diluted and reanalyzed due to second vial used as matrix spike/matrix spike duplicate.

1,1-Dichloroethene, & Trichloroethene values for the QC samples 1202819-003AMS/MSD are "E" qualified indicating estimated values over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-001

Client Sample ID: 12039-MW-2
Collection Date: 2/8/2012 2:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 16:14	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
Acetone	380	50		ug/L	157767	1	02/11/2012 16:14	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
cis-1,2-Dichloroethene	6.1	5.0		ug/L	157767	1	02/11/2012 16:14	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 16:14	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-001

Client Sample ID: 12039-MW-2
Collection Date: 2/8/2012 2:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 16:14	SB
Vinyl chloride	2.5	2.0		ug/L	157767	1	02/11/2012 16:14	SB
Surr: 4-Bromofluorobenzene	104	67.4-123		%REC	157767	1	02/11/2012 16:14	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	157767	1	02/11/2012 16:14	SB
Surr: Toluene-d8	97.3	70-120		%REC	157767	1	02/11/2012 16:14	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-002

Client Sample ID: 12039-MW-2D
Collection Date: 2/8/2012 11:05:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 18:05	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
Acetone	71	50		ug/L	157767	1	02/13/2012 18:05	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 18:05	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-002

Client Sample ID: 12039-MW-2D
Collection Date: 2/8/2012 11:05:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:05	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 18:05	SB
Surr: 4-Bromofluorobenzene	97.2	67.4-123		%REC	157767	1	02/13/2012 18:05	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	157767	1	02/13/2012 18:05	SB
Surr: Toluene-d8	101	70-120		%REC	157767	1	02/13/2012 18:05	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-003

Client Sample ID: 12040-MW-3
Collection Date: 2/9/2012 9:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	1.05	1.00		mg/L	R215190	1	02/14/2012 14:18	GR
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	590	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,1,2-Trichloroethane	24	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,1-Dichloroethane	490	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
1,1-Dichloroethene	2600	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,2-Dichloroethane	1000	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 17:11	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 17:11	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 17:11	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 17:11	SB
Benzene	7.6	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 17:11	SB
Chloroform	1100	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 17:11	SB
cis-1,2-Dichloroethene	1900	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Cyclohexane	24	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 17:11	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Freon-113	240	10	E	ug/L	157767	1	02/11/2012 17:11	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-003

Client Sample ID: 12040-MW-3
Collection Date: 2/9/2012 9:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	12	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Methylene chloride	66	5.0		ug/L	157767	1	02/11/2012 17:11	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Tetrachloroethene	3000	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
Toluene	5.2	5.0		ug/L	157767	1	02/11/2012 17:11	SB
trans-1,2-Dichloroethene	170	5.0		ug/L	157767	1	02/11/2012 17:11	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Trichloroethene	4200	5.0	E	ug/L	157767	1	02/11/2012 17:11	SB
Trichlorofluoromethane	9.6	5.0		ug/L	157767	1	02/11/2012 17:11	SB
Vinyl chloride	240	2.0	E	ug/L	157767	1	02/11/2012 17:11	SB
Surr: 4-Bromofluorobenzene	97.2	67.4-123		%REC	157767	1	02/11/2012 17:11	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157767	1	02/11/2012 17:11	SB
Surr: Toluene-d8	98.6	70-120		%REC	157767	1	02/11/2012 17:11	SB
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	157877	1	02/15/2012 12:30	AS
ION SCAN SW9056A								
Chloride	30	1.0		mg/L	R215060	1	02/09/2012 17:18	ME
Nitrate	BRL	0.25		mg/L	R215060	1	02/09/2012 17:18	ME
Nitrite	BRL	0.25		mg/L	R215060	1	02/09/2012 17:18	ME
Sulfate	9.3	1.0		mg/L	R215060	1	02/09/2012 17:18	ME
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethylene	35	7		ug/L	157835	1	02/15/2012 12:03	SN
Methane	1500	80		ug/L	157835	20	02/15/2012 14:15	SN
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	169	10.0		mg/L	R215215	1	02/15/2012 12:31	TL

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-004

Client Sample ID: 12039-MW-3D
Collection Date: 2/8/2012 4:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R215190	1	02/14/2012 14:41	GR
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	460	50		ug/L	157767	10	02/14/2012 12:51	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,1-Dichloroethane	190	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,1-Dichloroethene	550	50		ug/L	157767	10	02/14/2012 12:51	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,2-Dichloroethane	160	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 18:36	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 18:36	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 18:36	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 18:36	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 18:36	SB
Chloroform	150	50		ug/L	157767	10	02/14/2012 12:51	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 18:36	SB
cis-1,2-Dichloroethene	410	50		ug/L	157767	10	02/14/2012 12:51	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 18:36	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Freon-113	82	10		ug/L	157767	1	02/11/2012 18:36	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-004

Client Sample ID: 12039-MW-3D
Collection Date: 2/8/2012 4:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	5.0	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Tetrachloroethene	930	50		ug/L	157767	10	02/14/2012 12:51	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
trans-1,2-Dichloroethene	34	5.0		ug/L	157767	1	02/11/2012 18:36	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Trichloroethene	1000	50		ug/L	157767	10	02/14/2012 12:51	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 18:36	SB
Vinyl chloride	120	2.0		ug/L	157767	1	02/11/2012 18:36	SB
Surr: 4-Bromofluorobenzene	94.8	67.4-123		%REC	157767	1	02/11/2012 18:36	SB
Surr: 4-Bromofluorobenzene	95.7	67.4-123		%REC	157767	10	02/14/2012 12:51	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	157767	10	02/14/2012 12:51	SB
Surr: Dibromofluoromethane	108	75.5-128		%REC	157767	1	02/11/2012 18:36	SB
Surr: Toluene-d8	99	70-120		%REC	157767	1	02/11/2012 18:36	SB
Surr: Toluene-d8	100	70-120		%REC	157767	10	02/14/2012 12:51	SB
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	157877	1	02/15/2012 12:30	AS
ION SCAN SW9056A								
Chloride	12	1.0		mg/L	R215060	1	02/09/2012 17:48	ME
Nitrate	BRL	0.25		mg/L	R215060	1	02/09/2012 17:48	ME
Nitrite	BRL	0.25		mg/L	R215060	1	02/09/2012 17:48	ME
Sulfate	6.7	1.0		mg/L	R215060	1	02/09/2012 17:48	ME
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethylene	16	7		ug/L	157835	1	02/15/2012 12:08	SN
Methane	570	40		ug/L	157835	10	02/15/2012 14:50	SN
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	141	10.0		mg/L	R215215	1	02/15/2012 12:09	TL

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-005

Client Sample ID: 12039-MW-4
Collection Date: 2/8/2012 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R215190	1	02/14/2012 15:05	GR
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 19:05	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 19:05	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
cis-1,2-Dichloroethene	33	5.0		ug/L	157767	1	02/11/2012 19:05	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 19:05	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-005

Client Sample ID: 12039-MW-4
Collection Date: 2/8/2012 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Tetrachloroethene	17	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Trichloroethene	41	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 19:05	SB
Vinyl chloride	11	2.0		ug/L	157767	1	02/11/2012 19:05	SB
Surr: 4-Bromofluorobenzene	99.4	67.4-123		%REC	157767	1	02/11/2012 19:05	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157767	1	02/11/2012 19:05	SB
Surr: Toluene-d8	102	70-120		%REC	157767	1	02/11/2012 19:05	SB
Sulfide by SW9030B/9034				(SW9030B)				
Sulfide	BRL	2.00		mg/L	157877	1	02/15/2012 12:30	AS
ION SCAN SW9056A								
Chloride	7.0	1.0		mg/L	R215060	1	02/09/2012 18:03	ME
Nitrate	BRL	0.25		mg/L	R215060	1	02/09/2012 18:03	ME
Nitrite	BRL	0.25		mg/L	R215060	1	02/09/2012 18:03	ME
Sulfate	3.0	1.0		mg/L	R215060	1	02/09/2012 18:03	ME
GC Analysis of Gaseous Samples SOP-RSK 175				(RSK175)				
Ethylene	BRL	7		ug/L	157835	1	02/15/2012 12:13	SN
Methane	2200	80		ug/L	157835	20	02/15/2012 14:56	SN
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	194	10.0		mg/L	R215215	1	02/15/2012 12:10	TL

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-006

Client Sample ID: 12040-MW-5
Collection Date: 2/9/2012 8:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Total Organic Carbon (TOC) SW9060A								
Organic Carbon, Total	BRL	1.00		mg/L	R215190	1	02/14/2012 15:31	GR
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,1-Dichloroethane	23	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2-Dichloroethane	17	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
2-Butanone	BRL	50		ug/L	157767	1	02/14/2012 13:19	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/14/2012 13:19	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/14/2012 13:19	SB
Acetone	BRL	50		ug/L	157767	1	02/14/2012 13:19	SB
Benzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Chloroethane	200	100		ug/L	157767	10	02/14/2012 13:48	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Chloromethane	BRL	10		ug/L	157767	1	02/14/2012 13:19	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/14/2012 13:19	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Freon-113	BRL	10		ug/L	157767	1	02/14/2012 13:19	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-006

Client Sample ID: 12040-MW-5
Collection Date: 2/9/2012 8:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Methylene chloride	9.5	5.0		ug/L	157767	1	02/14/2012 13:19	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Styrene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Toluene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
trans-1,2-Dichloroethene	24	5.0		ug/L	157767	1	02/14/2012 13:19	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/14/2012 13:19	SB
Vinyl chloride	11	2.0		ug/L	157767	1	02/14/2012 13:19	SB
Surr: 4-Bromofluorobenzene	94.3	67.4-123		%REC	157767	1	02/14/2012 13:19	SB
Surr: 4-Bromofluorobenzene	95.4	67.4-123		%REC	157767	10	02/14/2012 13:48	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	157767	10	02/14/2012 13:48	SB
Surr: Dibromofluoromethane	112	75.5-128		%REC	157767	1	02/14/2012 13:19	SB
Surr: Toluene-d8	100	70-120		%REC	157767	10	02/14/2012 13:48	SB
Surr: Toluene-d8	104	70-120		%REC	157767	1	02/14/2012 13:19	SB
Sulfide by SW9030B/9034 (SW9030B)								
Sulfide	BRL	2.00		mg/L	157877	1	02/15/2012 12:30	AS
ION SCAN SW9056A								
Chloride	26	1.0		mg/L	R215060	1	02/09/2012 18:17	ME
Nitrate	BRL	0.25		mg/L	R215060	1	02/09/2012 18:17	ME
Nitrite	BRL	0.25		mg/L	R215060	1	02/09/2012 18:17	ME
Sulfate	BRL	1.0		mg/L	R215060	1	02/09/2012 18:17	ME
GC Analysis of Gaseous Samples SOP-RSK 175 (RSK175)								
Ethylene	240	7		ug/L	157835	1	02/15/2012 12:18	SN
Methane	9100	400		ug/L	157835	100	02/15/2012 15:02	SN
Alkalinity E310.2								
Alkalinity, Total (As CaCO3)	436	40.0		mg/L	R215215	4	02/15/2012 12:36	TL

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-007

Client Sample ID: 12039-MW-6
Collection Date: 2/8/2012 1:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	26	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,1-Dichloroethane	19	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,1-Dichloroethene	110	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2-Dichloroethane	13	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 18:33	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 18:33	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 18:33	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 18:33	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 18:33	SB
Chloroform	24	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 18:33	SB
cis-1,2-Dichloroethene	6.0	5.0		ug/L	157767	1	02/13/2012 18:33	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 18:33	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Freon-113	20	10		ug/L	157767	1	02/13/2012 18:33	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-007

Client Sample ID: 12039-MW-6
Collection Date: 2/8/2012 1:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
trans-1,2-Dichloroethene	6.7	5.0		ug/L	157767	1	02/13/2012 18:33	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Trichloroethene	41	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 18:33	SB
Vinyl chloride	2.8	2.0		ug/L	157767	1	02/13/2012 18:33	SB
Surr: 4-Bromofluorobenzene	95.2	67.4-123		%REC	157767	1	02/13/2012 18:33	SB
Surr: Dibromofluoromethane	107	75.5-128		%REC	157767	1	02/13/2012 18:33	SB
Surr: Toluene-d8	100	70-120		%REC	157767	1	02/13/2012 18:33	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-008

Client Sample ID: 12040-MW-7
Collection Date: 2/9/2012 9:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,1-Dichloroethane	16	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,1-Dichloroethene	34	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 20:29	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 20:29	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
cis-1,2-Dichloroethene	320	100		ug/L	157767	20	02/14/2012 14:44	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 20:29	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-008

Client Sample ID: 12040-MW-7
Collection Date: 2/9/2012 9:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Tetrachloroethene	1700	100		ug/L	157767	20	02/14/2012 14:44	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Trichloroethene	230	100		ug/L	157767	20	02/14/2012 14:44	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:29	SB
Vinyl chloride	150	2.0		ug/L	157767	1	02/11/2012 20:29	SB
Surr: 4-Bromofluorobenzene	96.5	67.4-123		%REC	157767	1	02/11/2012 20:29	SB
Surr: 4-Bromofluorobenzene	99.8	67.4-123		%REC	157767	20	02/14/2012 14:44	SB
Surr: Dibromofluoromethane	108	75.5-128		%REC	157767	20	02/14/2012 14:44	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157767	1	02/11/2012 20:29	SB
Surr: Toluene-d8	103	70-120		%REC	157767	20	02/14/2012 14:44	SB
Surr: Toluene-d8	98.6	70-120		%REC	157767	1	02/11/2012 20:29	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-009

Client Sample ID: 12039-MW-8
Collection Date: 2/8/2012 10:47:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 20:58	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 20:58	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 20:58	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-009

Client Sample ID: 12039-MW-8
Collection Date: 2/8/2012 10:47:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 20:58	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/11/2012 20:58	SB
Surr: 4-Bromofluorobenzene	99.5	67.4-123		%REC	157767	1	02/11/2012 20:58	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157767	1	02/11/2012 20:58	SB
Surr: Toluene-d8	101	70-120		%REC	157767	1	02/11/2012 20:58	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-010

Client Sample ID: 12039-MW-9
Collection Date: 2/8/2012 10:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 21:26	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 21:26	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 21:26	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-010

Client Sample ID: 12039-MW-9
Collection Date: 2/8/2012 10:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:26	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/11/2012 21:26	SB
Surr: 4-Bromofluorobenzene	101	67.4-123		%REC	157767	1	02/11/2012 21:26	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	157767	1	02/11/2012 21:26	SB
Surr: Toluene-d8	101	70-120		%REC	157767	1	02/11/2012 21:26	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-011

Client Sample ID: 12038-MW-10
Collection Date: 2/7/2012 2:32:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 21:54	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 21:54	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
cis-1,2-Dichloroethene	16	5.0		ug/L	157767	1	02/11/2012 21:54	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 21:54	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-011

Client Sample ID: 12038-MW-10
Collection Date: 2/7/2012 2:32:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Trichloroethene	49	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 21:54	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/11/2012 21:54	SB
Surr: 4-Bromofluorobenzene	99	67.4-123		%REC	157767	1	02/11/2012 21:54	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	157767	1	02/11/2012 21:54	SB
Surr: Toluene-d8	98.5	70-120		%REC	157767	1	02/11/2012 21:54	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-012

Client Sample ID: 12038-MW-11
Collection Date: 2/7/2012 12:31:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 22:22	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 22:22	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
cis-1,2-Dichloroethene	8.8	5.0		ug/L	157767	1	02/11/2012 22:22	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 22:22	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-012

Client Sample ID: 12038-MW-11
Collection Date: 2/7/2012 12:31:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:22	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/11/2012 22:22	SB
Surr: 4-Bromofluorobenzene	99.2	67.4-123		%REC	157767	1	02/11/2012 22:22	SB
Surr: Dibromofluoromethane	107	75.5-128		%REC	157767	1	02/11/2012 22:22	SB
Surr: Toluene-d8	102	70-120		%REC	157767	1	02/11/2012 22:22	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-013

Client Sample ID: 12039-DUP-1
Collection Date: 2/8/2012
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 22:51	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 22:51	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Freon-113	BRL	10		ug/L	157767	1	02/11/2012 22:51	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-013

Client Sample ID: 12039-DUP-1
Collection Date: 2/8/2012
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 22:51	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/11/2012 22:51	SB
Surr: 4-Bromofluorobenzene	102	67.4-123		%REC	157767	1	02/11/2012 22:51	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	157767	1	02/11/2012 22:51	SB
Surr: Toluene-d8	101	70-120		%REC	157767	1	02/11/2012 22:51	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-014

Client Sample ID: 12039-DUP-2
Collection Date: 2/8/2012
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	480	50		ug/L	157767	10	02/14/2012 15:13	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,1,2-Trichloroethane	5.6	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,1-Dichloroethane	190	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,1-Dichloroethene	600	50		ug/L	157767	10	02/14/2012 15:13	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,2-Dichloroethane	160	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
2-Butanone	BRL	50		ug/L	157767	1	02/11/2012 23:19	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/11/2012 23:19	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/11/2012 23:19	SB
Acetone	BRL	50		ug/L	157767	1	02/11/2012 23:19	SB
Benzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Chloroethane	BRL	10		ug/L	157767	1	02/11/2012 23:19	SB
Chloroform	180	50		ug/L	157767	10	02/14/2012 15:13	SB
Chloromethane	BRL	10		ug/L	157767	1	02/11/2012 23:19	SB
cis-1,2-Dichloroethene	460	50		ug/L	157767	10	02/14/2012 15:13	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/11/2012 23:19	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Freon-113	80	10		ug/L	157767	1	02/11/2012 23:19	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Methylcyclohexane	5.5	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-014

Client Sample ID: 12039-DUP-2
Collection Date: 2/8/2012
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Tetrachloroethene	990	50		ug/L	157767	10	02/14/2012 15:13	SB
Toluene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
trans-1,2-Dichloroethene	34	5.0		ug/L	157767	1	02/11/2012 23:19	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Trichloroethene	1100	50		ug/L	157767	10	02/14/2012 15:13	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/11/2012 23:19	SB
Vinyl chloride	120	2.0		ug/L	157767	1	02/11/2012 23:19	SB
Surr: 4-Bromofluorobenzene	93.4	67.4-123		%REC	157767	10	02/14/2012 15:13	SB
Surr: 4-Bromofluorobenzene	94.4	67.4-123		%REC	157767	1	02/11/2012 23:19	SB
Surr: Dibromofluoromethane	105	75.5-128		%REC	157767	10	02/14/2012 15:13	SB
Surr: Dibromofluoromethane	109	75.5-128		%REC	157767	1	02/11/2012 23:19	SB
Surr: Toluene-d8	99	70-120		%REC	157767	10	02/14/2012 15:13	SB
Surr: Toluene-d8	100	70-120		%REC	157767	1	02/11/2012 23:19	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-015

Client Sample ID: 12038-MW-12
Collection Date: 2/7/2012 12:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,1-Dichloroethane	7.1	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 12:24	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 12:24	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
cis-1,2-Dichloroethene	14	5.0		ug/L	157767	1	02/13/2012 12:24	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 12:24	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-015

Client Sample ID: 12038-MW-12
Collection Date: 2/7/2012 12:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Trichloroethene	9.1	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:24	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 12:24	SB
Surr: 4-Bromofluorobenzene	99.6	67.4-123		%REC	157767	1	02/13/2012 12:24	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157767	1	02/13/2012 12:24	SB
Surr: Toluene-d8	102	70-120		%REC	157767	1	02/13/2012 12:24	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-016

Client Sample ID: 12039-MW-13
Collection Date: 2/8/2012 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 12:52	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 12:52	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 12:52	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-016

Client Sample ID: 12039-MW-13
Collection Date: 2/8/2012 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 12:52	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 12:52	SB
Surr: 4-Bromofluorobenzene	99.2	67.4-123		%REC	157767	1	02/13/2012 12:52	SB
Surr: Dibromofluoromethane	106	75.5-128		%REC	157767	1	02/13/2012 12:52	SB
Surr: Toluene-d8	102	70-120		%REC	157767	1	02/13/2012 12:52	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-017

Client Sample ID: 12039-MW-14
Collection Date: 2/8/2012 9:57:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 13:21	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 13:21	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 13:21	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-017

Client Sample ID: 12039-MW-14
Collection Date: 2/8/2012 9:57:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:21	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 13:21	SB
Surr: 4-Bromofluorobenzene	99	67.4-123		%REC	157767	1	02/13/2012 13:21	SB
Surr: Dibromofluoromethane	108	75.5-128		%REC	157767	1	02/13/2012 13:21	SB
Surr: Toluene-d8	104	70-120		%REC	157767	1	02/13/2012 13:21	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-018

Client Sample ID: 12039-MW-15
Collection Date: 2/8/2012 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	5.3	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,1-Dichloroethane	5.7	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,1-Dichloroethene	19	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 13:49	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 13:49	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
cis-1,2-Dichloroethene	37	5.0		ug/L	157767	1	02/13/2012 13:49	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 13:49	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-018

Client Sample ID: 12039-MW-15
Collection Date: 2/8/2012 1:00:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Trichloroethene	21	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 13:49	SB
Vinyl chloride	8.2	2.0		ug/L	157767	1	02/13/2012 13:49	SB
Surr: 4-Bromofluorobenzene	97	67.4-123		%REC	157767	1	02/13/2012 13:49	SB
Surr: Dibromofluoromethane	107	75.5-128		%REC	157767	1	02/13/2012 13:49	SB
Surr: Toluene-d8	100	70-120		%REC	157767	1	02/13/2012 13:49	SB

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

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-019

Client Sample ID: 12039-MW-16
Collection Date: 2/8/2012 9:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 15:14	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 15:14	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 15:14	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-019

Client Sample ID: 12039-MW-16
Collection Date: 2/8/2012 9:15:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:14	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 15:14	SB
Surr: 4-Bromofluorobenzene	98.2	67.4-123		%REC	157767	1	02/13/2012 15:14	SB
Surr: Dibromofluoromethane	103	75.5-128		%REC	157767	1	02/13/2012 15:14	SB
Surr: Toluene-d8	102	70-120		%REC	157767	1	02/13/2012 15:14	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-020

Client Sample ID: 12038-MW-17
Collection Date: 2/7/2012 12:55:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
2-Butanone	BRL	50		ug/L	157767	1	02/13/2012 15:43	SB
2-Hexanone	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
Acetone	BRL	50		ug/L	157767	1	02/13/2012 15:43	SB
Benzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Bromodichloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Bromoform	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Bromomethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Carbon disulfide	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Carbon tetrachloride	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Chlorobenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Chloroethane	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
Chloroform	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Chloromethane	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Cyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Dibromochloromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Dichlorodifluoromethane	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
Ethylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Freon-113	BRL	10		ug/L	157767	1	02/13/2012 15:43	SB
Isopropylbenzene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
m,p-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Methyl acetate	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Methylcyclohexane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Methylene chloride	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
o-Xylene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-020

Client Sample ID: 12038-MW-17
Collection Date: 2/7/2012 12:55:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Tetrachloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Toluene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Trichloroethene	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157767	1	02/13/2012 15:43	SB
Vinyl chloride	BRL	2.0		ug/L	157767	1	02/13/2012 15:43	SB
Surr: 4-Bromofluorobenzene	94.6	67.4-123		%REC	157767	1	02/13/2012 15:43	SB
Surr: Dibromofluoromethane	93.9	75.5-128		%REC	157767	1	02/13/2012 15:43	SB
Surr: Toluene-d8	103	70-120		%REC	157767	1	02/13/2012 15:43	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-021

Client Sample ID: 12040-RINS-1
Collection Date: 2/9/2012 9:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
2-Butanone	BRL	50		ug/L	157790	1	02/15/2012 10:46	SB
2-Hexanone	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
Acetone	64	50		ug/L	157790	1	02/15/2012 10:46	SB
Benzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Bromodichloromethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Bromoform	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Bromomethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Carbon disulfide	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Carbon tetrachloride	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Chlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Chloroethane	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
Chloroform	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Chloromethane	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Cyclohexane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Dibromochloromethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Dichlorodifluoromethane	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
Ethylbenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Freon-113	BRL	10		ug/L	157790	1	02/15/2012 10:46	SB
Isopropylbenzene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
m,p-Xylene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Methyl acetate	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Methylcyclohexane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Methylene chloride	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
o-Xylene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-021

Client Sample ID: 12040-RINS-1
Collection Date: 2/9/2012 9:55:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Tetrachloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Toluene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Trichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157790	1	02/15/2012 10:46	SB
Vinyl chloride	BRL	2.0		ug/L	157790	1	02/15/2012 10:46	SB
Surr: 4-Bromofluorobenzene	98.7	67.4-123		%REC	157790	1	02/15/2012 10:46	SB
Surr: Dibromofluoromethane	107	75.5-128		%REC	157790	1	02/15/2012 10:46	SB
Surr: Toluene-d8	105	70-120		%REC	157790	1	02/15/2012 10:46	SB

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-022

Client Sample ID: 12040-RINS-2
Collection Date: 2/9/2012 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
2-Butanone	BRL	50		ug/L	157790	1	02/15/2012 11:14	SB
2-Hexanone	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
Acetone	67	50		ug/L	157790	1	02/15/2012 11:14	SB
Benzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Bromodichloromethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Bromoform	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Bromomethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Carbon disulfide	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Carbon tetrachloride	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Chlorobenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Chloroethane	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
Chloroform	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Chloromethane	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Cyclohexane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Dibromochloromethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Dichlorodifluoromethane	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
Ethylbenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Freon-113	BRL	10		ug/L	157790	1	02/15/2012 11:14	SB
Isopropylbenzene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
m,p-Xylene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Methyl acetate	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Methylcyclohexane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Methylene chloride	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
o-Xylene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB

Qualifiers:

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

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

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-022

Client Sample ID: 12040-RINS-2
Collection Date: 2/9/2012 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Tetrachloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Toluene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Trichloroethene	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157790	1	02/15/2012 11:14	SB
Vinyl chloride	BRL	2.0		ug/L	157790	1	02/15/2012 11:14	SB
Surr: 4-Bromofluorobenzene	97.6	67.4-123		%REC	157790	1	02/15/2012 11:14	SB
Surr: Dibromofluoromethane	104	75.5-128		%REC	157790	1	02/15/2012 11:14	SB
Surr: Toluene-d8	97.9	70-120		%REC	157790	1	02/15/2012 11:14	SB

Qualifiers: * Value exceeds maximum contaminant level
 BRL Below reporting limit
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 N Analyte not NELAC certified
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E Estimated (value above quantitation range)
 S Spike Recovery outside limits due to matrix
 Narr See case narrative
 NC Not confirmed
 < Less than Result value
 J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc
Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-023

Client Sample ID: TRIP BLANK
Collection Date: 2/9/2012
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,1,2-Trichloroethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,1-Dichloroethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,1-Dichloroethene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2-Dibromoethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2-Dichloroethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,2-Dichloropropane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,3-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
1,4-Dichlorobenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
2-Butanone	BRL	50		ug/L	157790	1	02/14/2012 15:42	SB
2-Hexanone	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
4-Methyl-2-pentanone	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
Acetone	BRL	50		ug/L	157790	1	02/14/2012 15:42	SB
Benzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Bromodichloromethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Bromoform	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Bromomethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Carbon disulfide	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Carbon tetrachloride	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Chlorobenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Chloroethane	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
Chloroform	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Chloromethane	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
cis-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Cyclohexane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Dibromochloromethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Dichlorodifluoromethane	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
Ethylbenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Freon-113	BRL	10		ug/L	157790	1	02/14/2012 15:42	SB
Isopropylbenzene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
m,p-Xylene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Methyl acetate	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Methyl tert-butyl ether	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Methylcyclohexane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Methylene chloride	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
o-Xylene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB

Qualifiers:

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

Analytical Environmental Services, Inc

Date: 16-Feb-12

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Lab ID: 1202819-023

Client Sample ID: TRIP BLANK
Collection Date: 2/9/2012
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Tetrachloroethene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Toluene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Trichloroethene	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Trichlorofluoromethane	BRL	5.0		ug/L	157790	1	02/14/2012 15:42	SB
Vinyl chloride	BRL	2.0		ug/L	157790	1	02/14/2012 15:42	SB
Surr: 4-Bromofluorobenzene	97.9	67.4-123		%REC	157790	1	02/14/2012 15:42	SB
Surr: Dibromofluoromethane	107	75.5-128		%REC	157790	1	02/14/2012 15:42	SB
Surr: Toluene-d8	102	70-120		%REC	157790	1	02/14/2012 15:42	SB

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
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- 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 EPS

Work Order Number 1702819

Checklist completed by Mark 2-9-12
Signature Date

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 4.1°C Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☒

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

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

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

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ML

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.

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

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab Order: 1202819

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1202819-001A	12039-MW-2	2/8/2012 2:35:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-002A	12039-MW-2D	2/8/2012 11:05:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-003A	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-003B	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	GC Analysis of Gaseous Samples		02/15/2012	02/15/2012
1202819-003C	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	Total Organic Carbon (TOC)			02/14/2012
1202819-003D	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	Sulfide by SW9030/9034		02/15/2012	02/15/2012
1202819-003E	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	Alkalinity			02/15/2012
1202819-003E	12040-MW-3	2/9/2012 9:20:00AM	Groundwater	ION SCAN			02/09/2012
1202819-004A	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-004A	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/14/2012
1202819-004B	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	GC Analysis of Gaseous Samples		02/15/2012	02/15/2012
1202819-004C	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	Total Organic Carbon (TOC)			02/14/2012
1202819-004D	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	Sulfide by SW9030/9034		02/15/2012	02/15/2012
1202819-004E	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	Alkalinity			02/15/2012
1202819-004E	12039-MW-3D	2/8/2012 4:20:00PM	Groundwater	ION SCAN			02/09/2012
1202819-005A	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-005B	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	GC Analysis of Gaseous Samples		02/15/2012	02/15/2012
1202819-005C	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	Total Organic Carbon (TOC)			02/14/2012
1202819-005D	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	Sulfide by SW9030/9034		02/15/2012	02/15/2012
1202819-005E	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	Alkalinity			02/15/2012
1202819-005E	12039-MW-4	2/8/2012 1:00:00PM	Groundwater	ION SCAN			02/09/2012
1202819-006A	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/14/2012
1202819-006B	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	GC Analysis of Gaseous Samples		02/15/2012	02/15/2012
1202819-006C	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	Total Organic Carbon (TOC)			02/14/2012
1202819-006D	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	Sulfide by SW9030/9034		02/15/2012	02/15/2012
1202819-006E	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	Alkalinity			02/15/2012
1202819-006E	12040-MW-5	2/9/2012 8:50:00AM	Groundwater	ION SCAN			02/09/2012
1202819-007A	12039-MW-6	2/8/2012 1:35:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-008A	12040-MW-7	2/9/2012 9:15:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012

Client: Environmental Planning Specialists, Inc.
Project: Capitol Adhesives
Lab Order: 1202819

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1202819-008A	12040-MW-7	2/9/2012 9:15:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/14/2012
1202819-009A	12039-MW-8	2/8/2012 10:47:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-010A	12039-MW-9	2/8/2012 10:45:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-011A	12038-MW-10	2/7/2012 2:32:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-012A	12038-MW-11	2/7/2012 12:31:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-013A	12039-DUP-1	2/8/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-014A	12039-DUP-2	2/8/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/11/2012
1202819-014A	12039-DUP-2	2/8/2012 12:00:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/14/2012
1202819-015A	12038-MW-12	2/7/2012 12:35:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-016A	12039-MW-13	2/8/2012 9:50:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-017A	12039-MW-14	2/8/2012 9:57:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-018A	12039-MW-15	2/8/2012 1:00:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-019A	12039-MW-16	2/8/2012 9:15:00AM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-020A	12038-MW-17	2/7/2012 12:55:00PM	Groundwater	TCL VOLATILE ORGANICS		02/11/2012	02/13/2012
1202819-021A	12040-RINS-1	2/9/2012 9:55:00AM	Groundwater	TCL VOLATILE ORGANICS		02/13/2012	02/15/2012
1202819-022A	12040-RINS-2	2/9/2012 10:00:00AM	Groundwater	TCL VOLATILE ORGANICS		02/13/2012	02/15/2012
1202819-023A	TRIP BLANK	2/9/2012 12:00:00AM	Aqueous	TCL VOLATILE ORGANICS		02/13/2012	02/14/2012

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157767**

Sample ID: MB-157767	Client ID:					Units: ug/L	Prep Date: 02/11/2012	Run No: 215005			
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 157767	Analysis Date: 02/11/2012	Seq No: 4496357			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157767**

Sample ID: MB-157767		Client ID:				Units: ug/L		Prep Date: 02/11/2012		Run No: 215005	
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 157767		Analysis Date: 02/11/2012		Seq No: 4496357	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	49.88	0	50	0	99.8	67.4	123	0	0	0	
Surr: Dibromofluoromethane	51.36	0	50	0	103	75.5	128	0	0	0	
Surr: Toluene-d8	50.41	0	50	0	101	70	120	0	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157767**

Sample ID: LCS-157767	Client ID:					Units: ug/L	Prep Date: 02/11/2012	Run No: 215005			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 157767	Analysis Date: 02/11/2012	Seq No: 4496358			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.10	5.0	50	0	126	60	140	0	0	0	
Benzene	53.52	5.0	50	0	107	70	130	0	0	0	
Chlorobenzene	50.68	5.0	50	0	101	70	130	0	0	0	
Toluene	51.66	5.0	50	0	103	70	130	0	0	0	
Trichloroethene	52.02	5.0	50	0	104	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	50.46	0	50	0	101	67.4	123	0	0	0	
Surr: Dibromofluoromethane	53.03	0	50	0	106	75.5	128	0	0	0	
Surr: Toluene-d8	51.47	0	50	0	103	70	120	0	0	0	

Sample ID: 1202819-003AMS	Client ID: 12040-MW-3	Units: ug/L			Prep Date: 02/11/2012	Run No: 215005					
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 157767			Analysis Date: 02/11/2012	Seq No: 4496365					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2623	5.0	50	2590	65.6	50.1	179	0	0	0	E
Benzene	62.25	5.0	50	7.630	109	61.2	150	0	0	0	
Chlorobenzene	51.37	5.0	50	0	103	72.1	140	0	0	0	
Toluene	57.67	5.0	50	5.230	105	58.7	154	0	0	0	
Trichloroethene	4245	5.0	50	4229	31.9	68.3	149	0	0	0	SE
Surr: 4-Bromofluorobenzene	49.32	0	50	0	98.6	67.4	123	0	0	0	
Surr: Dibromofluoromethane	53.40	0	50	0	107	75.5	128	0	0	0	
Surr: Toluene-d8	51.53	0	50	0	103	70	120	0	0	0	

Sample ID: 1202819-003AMSD	Client ID: 12040-MW-3	Units: ug/L		Prep Date: 02/11/2012	Run No: 215005						
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 157767		Analysis Date: 02/11/2012	Seq No: 4496367						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2497	5.0	50	2590	-185	50.1	179	2623	4.9	23.3	SE
Benzene	61.20	5.0	50	7.630	107	61.2	150	62.25	1.7	19	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: 157767

Sample ID: 1202819-003AMSD	Client ID: 12040-MW-3	Units: ug/L				Prep Date: 02/11/2012	Run No: 215005				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 157767				Analysis Date: 02/11/2012	Seq No: 4496367				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	51.34	5.0	50	0	103	72.1	140	51.37	0.058	21.5	
Toluene	55.94	5.0	50	5.230	101	58.7	154	57.67	3.05	20	
Trichloroethene	4177	5.0	50	4229	-103	68.3	149	4245	1.6	17.7	SE
Surr: 4-Bromofluorobenzene	49.87	0	50	0	99.7	67.4	123	49.32	0	0	
Surr: Dibromofluoromethane	53.29	0	50	0	107	75.5	128	53.40	0	0	
Surr: Toluene-d8	49.46	0	50	0	98.9	70	120	51.53	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157790**

Sample ID: MB-157790		Client ID:				Units: ug/L		Prep Date: 02/13/2012		Run No: 215018	
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 157790		Analysis Date: 02/13/2012		Seq No: 4497357	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	0	0	
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157790**

Sample ID: MB-157790		Client ID:				Units: ug/L		Prep Date: 02/13/2012		Run No: 215018	
SampleType: MBLK		TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 157790		Analysis Date: 02/13/2012		Seq No: 4497357	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
m,p-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
o-Xylene	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	48.40	0	50	0	96.8	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.15	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	51.69	0	50	0	103	70	120	0	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157790**

Sample ID: LCS-157790	Client ID:					Units: ug/L	Prep Date: 02/13/2012	Run No: 215018			
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 157790	Analysis Date: 02/13/2012	Seq No: 4497355			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.46	5.0	50	0	109	60	140	0	0	0	
Benzene	47.73	5.0	50	0	95.5	70	130	0	0	0	
Chlorobenzene	45.65	5.0	50	0	91.3	70	130	0	0	0	
Toluene	47.98	5.0	50	0	96	70	130	0	0	0	
Trichloroethene	45.80	5.0	50	0	91.6	70	130	0	0	0	
Surr: 4-Bromofluorobenzene	48.73	0	50	0	97.5	67.4	123	0	0	0	
Surr: Dibromofluoromethane	52.22	0	50	0	104	75.5	128	0	0	0	
Surr: Toluene-d8	51.52	0	50	0	103	70	120	0	0	0	

Sample ID: 1202631-006AMS	Client ID:					Units: ug/L	Prep Date: 02/13/2012	Run No: 215018			
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B					BatchID: 157790	Analysis Date: 02/13/2012	Seq No: 4498374			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	79.87	5.0	50	0	160	50.1	179	0	0	0	
Benzene	61.95	5.0	50	0	124	61.2	150	0	0	0	
Chlorobenzene	57.04	5.0	50	0	114	72.1	140	0	0	0	
Toluene	60.01	5.0	50	0	120	58.7	154	0	0	0	
Trichloroethene	59.47	5.0	50	0	119	68.3	149	0	0	0	
Surr: 4-Bromofluorobenzene	51.04	0	50	0	102	67.4	123	0	0	0	
Surr: Dibromofluoromethane	54.88	0	50	0	110	75.5	128	0	0	0	
Surr: Toluene-d8	51.59	0	50	0	103	70	120	0	0	0	

Sample ID: 1202631-006AMSD	Client ID:				Units: ug/L	Prep Date: 02/13/2012	Run No: 215018				
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B				BatchID: 157790	Analysis Date: 02/13/2012	Seq No: 4498375				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	67.09	5.0	50	0	134	50.1	179	79.87	17.4	23.3	
Benzene	54.79	5.0	50	0	110	61.2	150	61.95	12.3	19	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: 157790

Sample ID: 1202631-006AMSD	Client ID:					Units: ug/L	Prep Date: 02/13/2012	Run No: 215018			
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS	SW8260B	BatchID: 157790				Analysis Date: 02/13/2012	Seq No: 4498375			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	52.16	5.0	50	0	104	72.1	140	57.04	8.94	21.5	
Toluene	53.79	5.0	50	0	108	58.7	154	60.01	10.9	20	
Trichloroethene	53.37	5.0	50	0	107	68.3	149	59.47	10.8	17.7	
Surr: 4-Bromofluorobenzene	50.67	0	50	0	101	67.4	123	51.04	0	0	
Surr: Dibromofluoromethane	53.03	0	50	0	106	75.5	128	54.88	0	0	
Surr: Toluene-d8	52.29	0	50	0	105	70	120	51.59	0	0	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: 157835**

Sample ID: MB-157835	Client ID:					Units: ug/L	Prep Date: 02/15/2012	Run No: 215263			
SampleType: MBLK	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501646			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylene	BRL	7	0	0	0	0	0	0	0	0	
Methane	BRL	4	0	0	0	0	0	0	0	0	

Sample ID: LCS-157835	Client ID:					Units: ug/L	Prep Date: 02/15/2012	Run No: 215263			
SampleType: LCS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501657			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylene	80.99	7	200	0	40.5	26.6	115	0	0	0	
Methane	129.0	4	200	0	64.5	38.4	115	0	0	0	

Sample ID: LCSD-157835	Client ID:	Units: ug/L				Prep Date: 02/15/2012	Run No: 215263				
SampleType: LCSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501660			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylene	80.78	7	200	0	40.4	26.6	115	80.99	0.26	20	
Methane	128.2	4	200	0	64.1	38.4	115	129.0	0.637	20	

Sample ID: 1202B19-002BMS	Client ID:					Units: ug/L	Prep Date: 02/15/2012	Run No: 215263			
SampleType: MS	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501715			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylene	80.63	7	200	0	40.3	23.1	115	0	0	0	
Methane	126.9	4	200	0	63.5	38.4	115	0	0	0	

Sample ID: 1202B19-002BMSD	Client ID:					Units: ug/L	Prep Date: 02/15/2012	Run No: 215263			
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501719			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Ethylene	72.54	7	200	0	36.3	23.1	115	80.63	10.6	20	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: 157835

Sample ID: 1202B19-002BMSD	Client ID:	Units: ug/L				Prep Date: 02/15/2012	Run No: 215263				
SampleType: MSD	TestCode: GC Analysis of Gaseous Samples	SOP-RSK 175				BatchID: 157835	Analysis Date: 02/15/2012	Seq No: 4501719			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Methane	115.3	4	200	0	57.6	38.4	115	126.9	9.6	20	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: 157877

Sample ID: MB-157877		Client ID:				Units: mg/L		Prep Date: 02/15/2012		Run No: 215239	
SampleType: MBLK		TestCode: Sulfide by SW9030B/9034				BatchID: 157877		Analysis Date: 02/15/2012		Seq No: 4501114	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	BRL	2.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-157877		Client ID:				Units: mg/L		Prep Date: 02/15/2012		Run No: 215239	
SampleType: LCS		TestCode: Sulfide by SW9030B/9034				BatchID: 157877		Analysis Date: 02/15/2012		Seq No: 4501115	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	413.6	2.00	413.6	0	100	40	120	0	0	0	

Sample ID: 1202819-003DMS		Client ID: 12040-MW-3				Units: mg/L		Prep Date: 02/15/2012		Run No: 215239	
SampleType: MS		TestCode: Sulfide by SW9030B/9034				BatchID: 157877		Analysis Date: 02/15/2012		Seq No: 4501117	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	40.96	2.00	41.36	0	99	66.8	121	0	0	0	

Sample ID: 1202819-003DMSD		Client ID: 12040-MW-3				Units: mg/L		Prep Date: 02/15/2012		Run No: 215239	
SampleType: MSD		TestCode: Sulfide by SW9030B/9034				BatchID: 157877		Analysis Date: 02/15/2012		Seq No: 4501118	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Sulfide	40.16	2.00	41.36	0	97.1	66.8	121	40.96	1.97	30	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: R215060**

Sample ID: MB-R215060	Client ID:					Units: mg/L	Prep Date:	Run No: 215060			
SampleType: MBLK	TestCode: ION SCAN SW9056A					BatchID: R215060	Analysis Date: 02/09/2012	Seq No: 4497397			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	BRL	1.0	0	0	0	0	0	0	0	0	
Nitrate	BRL	0.25	0	0	0	0	0	0	0	0	
Nitrite	BRL	0.25	0	0	0	0	0	0	0	0	
Sulfate	BRL	1.0	0	0	0	0	0	0	0	0	

Sample ID: LCS-R215060	Client ID:					Units: mg/L	Prep Date:	Run No: 215060			
SampleType: LCS	TestCode: ION SCAN SW9056A					BatchID: R215060	Analysis Date: 02/09/2012	Seq No: 4497405			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	9.861	1.0	10	0.1147	97.5	90	110	0	0	0	
Nitrate	4.781	0.25	5	0	95.6	90	110	0	0	0	
Nitrite	4.831	0.25	5	0	96.6	90	110	0	0	0	
Sulfate	25.26	1.0	25	0	101	90	110	0	0	0	

Sample ID: 1202778-001AMS	Client ID:				Units: mg/L	Prep Date:			Run No: 215060		
SampleType: MS	TestCode: ION SCAN SW9056A				BatchID: R215060	Analysis Date: 02/09/2012			Seq No: 4497423		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.30	1.0	10	2.837	94.6	90	110	0	0	0	
Nitrate	4.789	0.25	5	0.05603	94.7	90	110	0	0	0	
Nitrite	4.576	0.25	5	0	91.5	90	110	0	0	0	
Sulfate	41.81	1.0	25	17.07	99	90	110	0	0	0	

Sample ID: 1202819-003EMS	Client ID: 12040-MW-3	Units: mg/L	Prep Date:	Run No: 215060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R215060	Analysis Date: 02/09/2012	Seq No: 4497438							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	37.46	1.0	10	29.65	78	90	110	0	0	0	S
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Qualifiers:

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: R215060

Sample ID: 1202819-003EMS	Client ID: 12040-MW-3	Units: mg/L	Prep Date:	Run No: 215060							
SampleType: MS	TestCode: ION SCAN SW9056A	BatchID: R215060	Analysis Date: 02/09/2012	Seq No: 4497438							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Nitrate	4.903	0.25	5	0.01486	97.8	90	110	0	0	0	
Nitrite	4.543	0.25	5	0	90.9	90	110	0	0	0	
Sulfate	34.37	1.0	25	9.286	100	90	110	0	0	0	

Sample ID: 1202778-001AMSD	Client ID:					Units: mg/L	Prep Date:		Run No: 215060		
SampleType: MSD	TestCode: ION SCAN SW9056A					BatchID: R215060	Analysis Date: 02/09/2012		Seq No: 4497424		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chloride	12.27	1.0	10	2.837	94.3	90	110	12.30	0.267	20	
Nitrate	4.792	0.25	5	0.05603	94.7	90	110	4.789	0.064	20	
Nitrite	4.589	0.25	5	0	91.8	90	110	4.576	0.275	20	
Sulfate	41.52	1.0	25	17.07	97.8	90	110	41.81	0.701	20	

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

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT**BatchID: R215190**

Sample ID: MB-R215190	Client ID:					Units: mg/L	Prep Date:			Run No: 215190	
SampleType: MBLK	TestCode: Total Organic Carbon (TOC) SW9060A					BatchID: R215190	Analysis Date: 02/14/2012			Seq No: 4500426	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	BRL	1.00	0	0	0	0	0	0	0	0	
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Sample ID: LCS-R215190	Client ID:					Units: mg/L	Prep Date:		Run No: 215190		
SampleType: LCS	TestCode: Total Organic Carbon (TOC) SW9060A					BatchID: R215190	Analysis Date: 02/14/2012		Seq No: 4500424		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	26.06	1.00	25	0	104	90	110	0	0	0	
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Sample ID: 1202819-003CMS	Client ID: 12040-MW-3	Units: mg/L			Prep Date:			Run No: 215190			
SampleType: MS	TestCode: Total Organic Carbon (TOC) SW9060A	BatchID: R215190			Analysis Date: 02/14/2012			Seq No: 4500438			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	26.16	1.00	25	1.046	100	80	120	0	0	0	
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Sample ID: 1202819-003CMSD	Client ID: 12040-MW-3				Units: mg/L	Prep Date:			Run No: 215190		
SampleType: MSD	TestCode: Total Organic Carbon (TOC) SW9060A				BatchID: R215190	Analysis Date: 02/14/2012			Seq No: 4500439		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Organic Carbon, Total	25.28	1.00	25	1.046	96.9	80	120	26.16	3.42	20	
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Qualifiers:	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	

Client: Environmental Planning Specialists, Inc.
Project Name: Capitol Adhesives
Workorder: 1202819

ANALYTICAL QC SUMMARY REPORT

BatchID: R215215

Sample ID: MB-R215215		Client ID:				Units: mg/L		Prep Date:		Run No: 215215	
SampleType: MBLK		TestCode: Alkalinity E310.2				BatchID: R215215		Analysis Date: 02/15/2012		Seq No: 4500692	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	10.0	0	0	0	0	0	0	0	0	

Sample ID: LCS-R215215		Client ID:				Units: mg/L		Prep Date:		Run No: 215215	
SampleType: LCS		TestCode: Alkalinity E310.2				BatchID: R215215		Analysis Date: 02/15/2012		Seq No: 4500693	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	241.0	10.0	250	0	96.4	75	125	0	0	0	

Sample ID: 1202819-004BDUP		Client ID: 12039-MW-3D				Units: mg/L		Prep Date:		Run No: 215215	
SampleType: DUP		TestCode: Alkalinity E310.2				BatchID: R215215		Analysis Date: 02/15/2012		Seq No: 4500706	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	143.0	10.0	0	0	0	0	0	0	0	30	

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



Monitoring We Sampling Form

Technician Signature

Monitoring We Sampling Form

[illegible]

Sample ID: 12039-MW-2D

Time Collected: 11:05

Technician Signature: _____

EPS Project: Capitol Adhesives

Date: 2-8-17

Well ID: MW-3D

Well ID: MW-3D
Sampling Performed By: Ryan Jones Self Denial
Well Construction: fish mount

Field Conditions:

Well Construction:

fish market

General Condition of Well.

Well Labeled: $\frac{1}{10}$

Well Cap:	Well	ocked:	60
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Condition of surrounding area: / /

Well depth from TOC:

non cap: 42 non looked: 116

Depth to Water from TOC:

Well Diameter (in):

Maths

Depth to water from 100
ft of mooring: 11.12

Well Diameter (in);
Height (ft) of water in well / Well depth from TOC Static level from TOC

length from TOC Static level from TOC).

Unit of measure: Watt

Height (m) of water in well (well depth 110 m) LOC = static level from LOC =

reput from 100 - Static level from 100%:

6/1/7

Volume of water

Dissolving Methods

for z (1.633 for 4°) (1.469 for 6°):

Three W

Purging Method:

Time @ 14:50

Start of Purge: 1332

[illegible]

Sample ID: 12039-MW-3D
DUP-2

Time Collected: 1620

Technician Signature _____

EPS Project: Capitol Adhesives

Date: 2-8-12

Well ID:

Well ID: **MW-4**
Sampling Performed By:

Well Construction:

Well Labeled: 00

Well depth from TOC:

Well Diameter (in):

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") (1.469 for 6")):

Purging Method:

Sample Method:

Field Conditions:

General Condition of Well:

Condition of surrounding area:

Denth to Water from TOC:

Method of measure:

of measure.

141

3.05

Time @ Start of Purge:

Sample Parameters:

Three Well Volumes (gal): 9.15

1215

$$m \cdot A + v \cdot C$$
[illegible]

Sample ID: 12039-MW-4

Time Collected: 390

Technician Signature _____

EPS Project: Capitol Adhesives

Well ID: MW-6

Well ID: MW-6
Sampling Performed By:

Sampling Performed By: Jeff Dennis / Ryan Jones
Well Construction: 24 flush mount

Well Labeled: AD Well Locked: yes
Well depth from TOC: 18.57

Well Diameter (in):

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") (1.469 for 6")):

Purging Method: $\log F_{A1.2} / \log \text{ stress}$

Sample Method:

60°F clear

General Condition of Well:

Condition of surrounding area: concrete

Depth to Water from TOC: 2.72

Method of measure:

58.51

2,54

Three Well Volumes (gal):

Time @ Start of Purge:

Sample Parameters:

[illegible]

Sample ID: 12039-MJ-6

Time Collected: 13:35

Technician Signature _____

EPS Project: Capitol Adhesives

Sampling Performed By:

Well Labeled: *ng*

Well Diameter (in):

Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")):

Sample Method:

Well ID: MW-9

Well Construction:

Well depth from TOC:

Volume of water in well (Ht. x(.16 for 2")(.653 for 4") (1.469 for 6")):

Sample Method:

Sample Parameters:

1001

Technician Signature _____

EPS Project: Capitol Adhesives		Date: 2-7-12
Well ID: MW-12	Field Conditions: Indur 3	
Sampling Performed By: Dennis	General Condition of Well: fair - 10' sludge, debris around	
Well Construction: flush mount	Condition of surrounding area: concrete	
Well Labeled: NO	Depth to Water from TOC: 3.36	
Well depth from TOC: 2	Method of measure: LHM	
Well Diameter (in): 2	16.52	
Height (Ht) of water in well (Well depth from TOC - Static level from TOC):	2.64	Three Well Volumes (gal): 7.93
Volume of water in well (Ht. x (.16 for 2") (.653 for 4") (1.469 for 6")):		Time @ Start of Purge: 1115
Purging Method: Peristaltic		Sample Parameters: VOC
Sample Method: low flow low stress		

[illegible]

Technician Signature _____

0839
CH55

Sample ID: 12039-MW-13
12039-~~13~~ Dup 1

Time Collected: 9:50

Technician Signature

10

0838	3.54
0850	7.09

Sample ID: 2039-MW-14

Time Collected: 0957

Technician Signature: 

EPS Project: Capitol Adhesives

Well ID: MW-16

Sampling Performed By:

Well Construction:

Well Labeled: $\Delta \phi$

Well depth from TOC:

Well Diameter (in):

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") (1.469 for 6")):

Purging Method:

Sample Method:

Jeff Dennis / Ryan Jones

known as "the" _____?

Well Cap:	YES	Well Locked:
-----------	-----	--------------

2592

h2

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") (1.469 for 6")):

Purging Method:

Sample Method:

45°F clear (partly cloudy)

General Condition of Well-

Condition of surrounding area:

Depth to Water from TOC: _____

Open to water from 100.
d of measure:

24.17

$$\overline{3.87}$$

Time @ Start of Purge:

Sample Parameters: 100

Three Well Volumes (gal):

4, 5

Sample Parameters: 100

[illegible]

Time Collected: 9:13

Technician Signature _____

EPS Project: Capitol Adhesives

Sampling Performed By:

Well Labeled:

Well depth from

Height (Ht) of water

Volume of water in well (lit. $\times 10^3$ for 4), (1.463 for 6):

Sample Method:

Start of Purge: 11:05

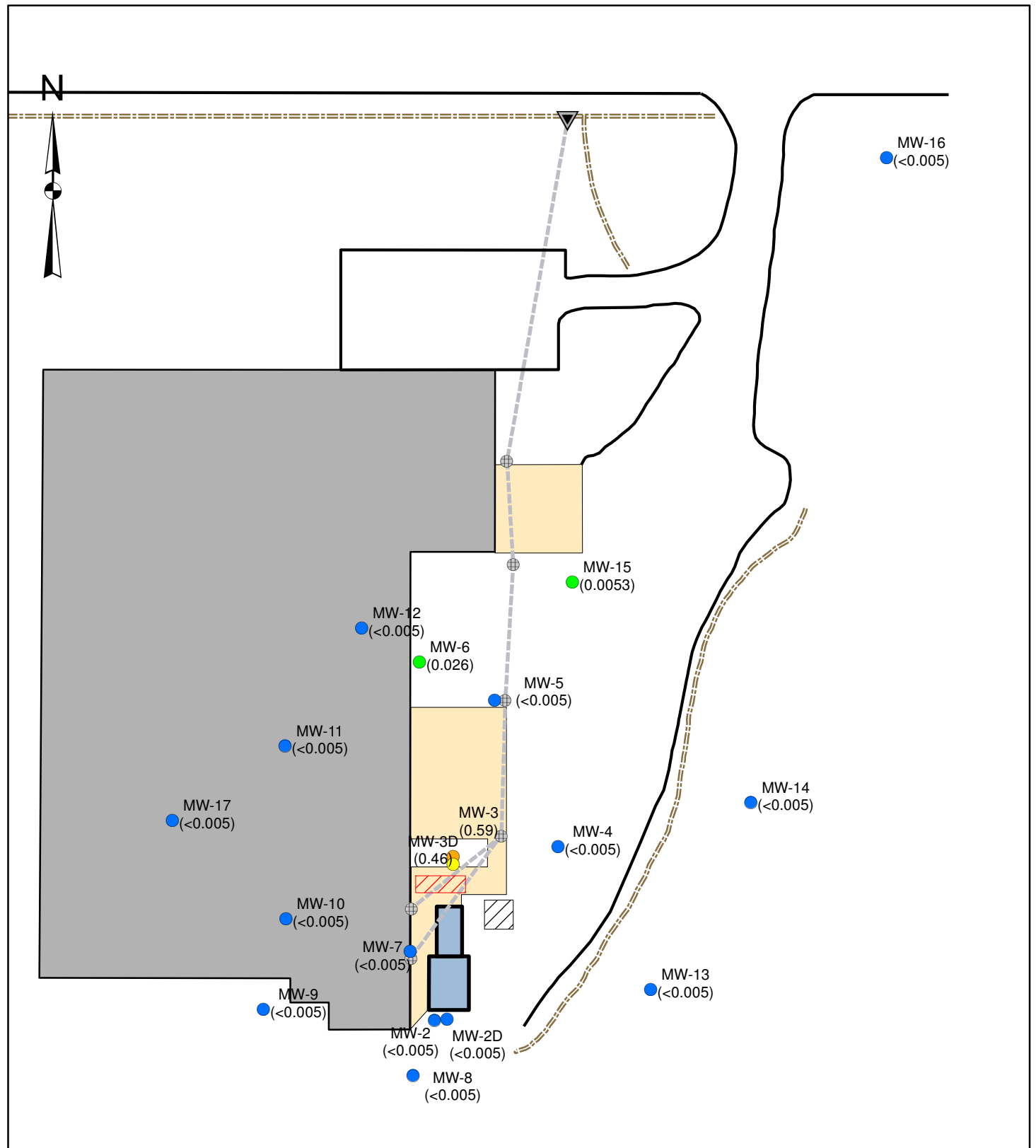
Technician Signature _____

APPENDIX E

GROUNDWATER CONSTITUENT FIGURES

Figure 1	1,1,1-Trichloroethane
Figure 2	1,1,2-Trichloroethane
Figure 3	1,1-Dichloroethane
Figure 4	1,1-Dichloroethene
Figure 5	1,2-Dichloroethane
Figure 6	Benzene
Figure 7	Chloroethane
Figure 8	Chloroform
Figure 9	cis-1,2-Dichloroethene
Figure 10	Dichloromethane (Methylene chloride)
Figure 11	Tetrachloroethene
Figure 12	trans-1,2-Dichloroethene
Figure 13	Trichloroethene
Figure 14	Vinyl chloride

Capitol Adhesives 1,1,1-Trichloroethane Groundwater Results (February 2012)



0 50 100
Feet

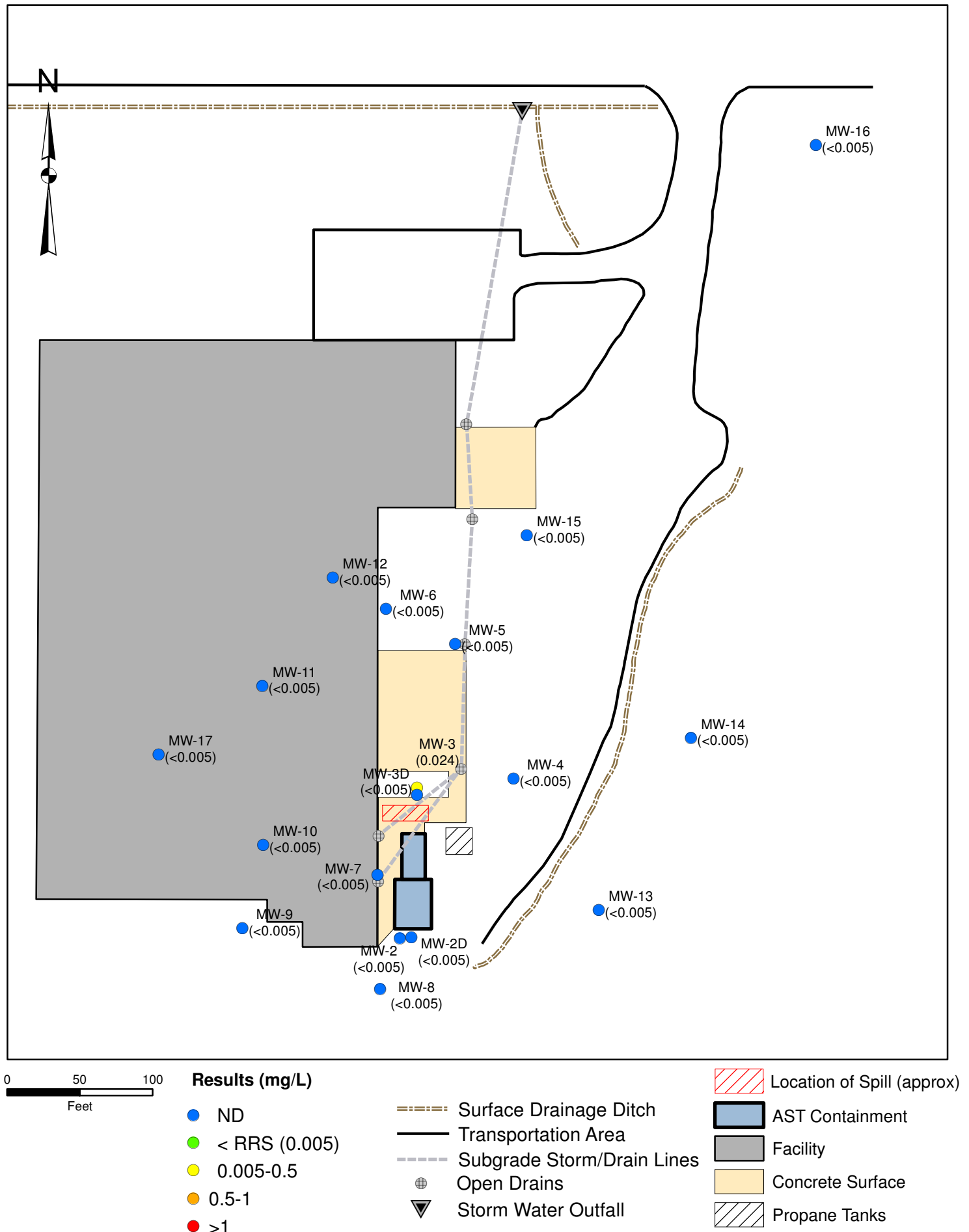
Results (mg/L)

- ND
- < RRS (0.2)
- 0.2-0.5
- 0.5-1
- >1

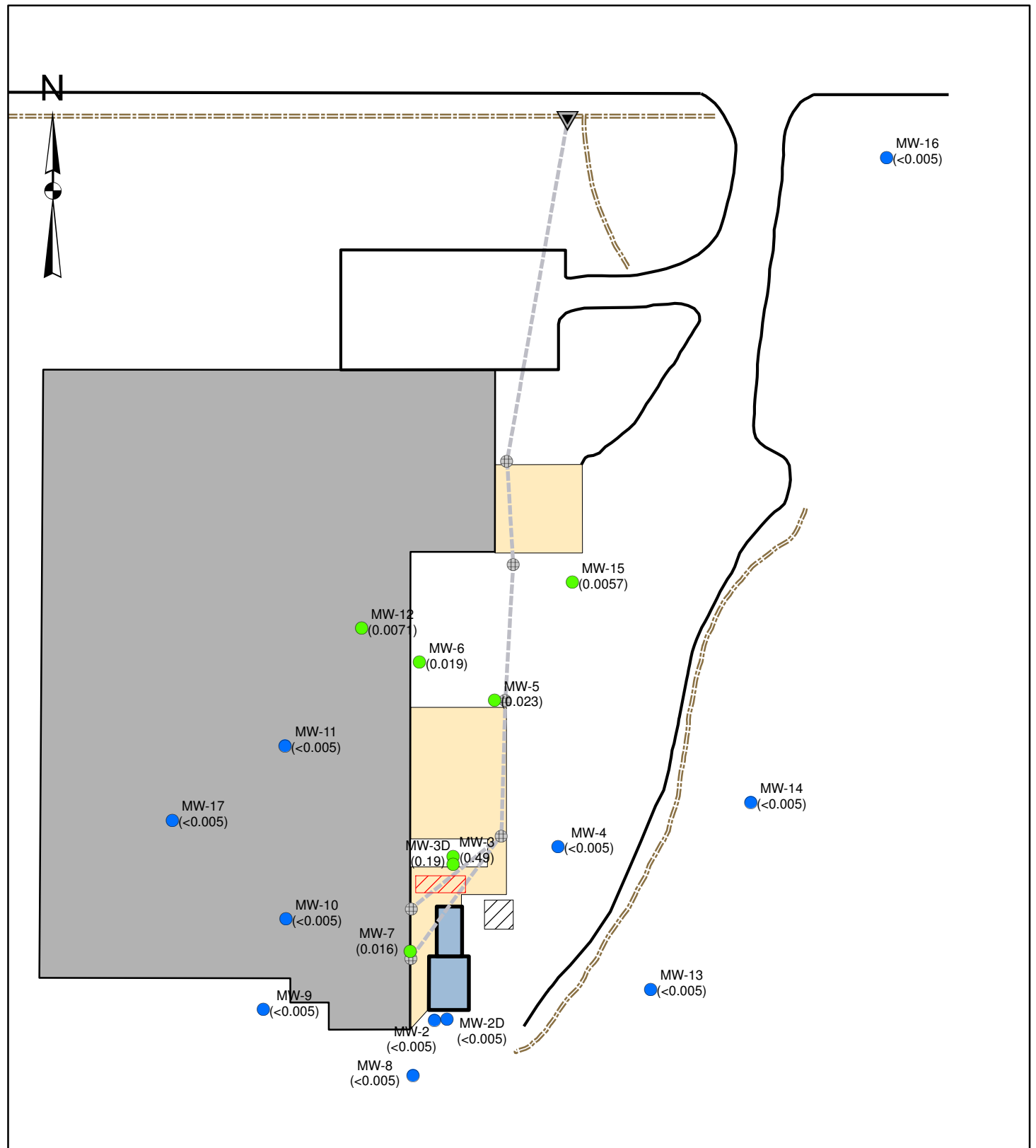
- Surface Drainage Ditch
- Transportation Area
- - - Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives 1,1,2-Trichloroethane Groundwater Results (February 2012)



Capitol Adhesives 1,1-Dichloroethane Groundwater Results (February 2012)



0 50 100
Feet

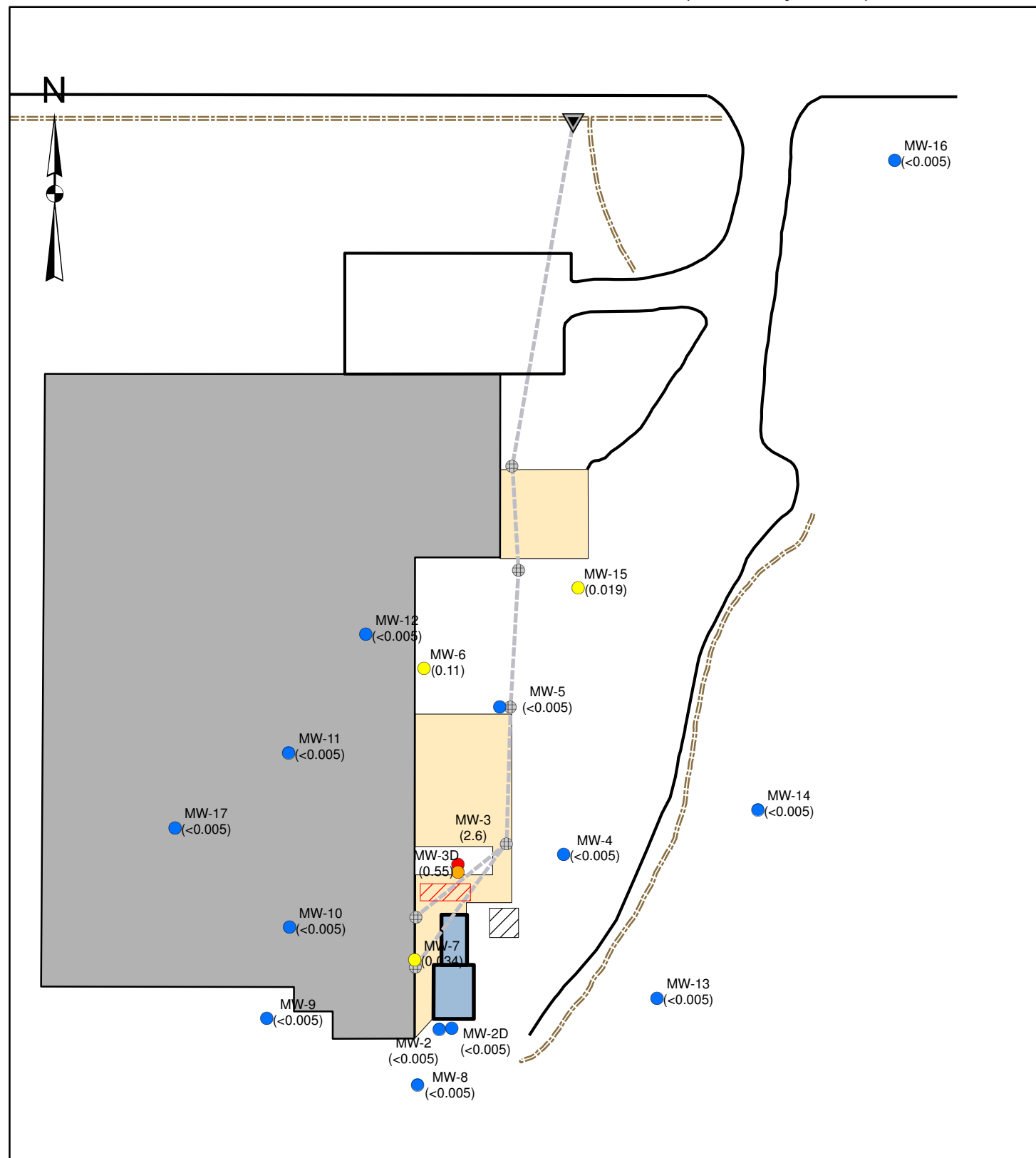
Results (mg/L)

- ND
- < RRS (4)
- > 4

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

Capitol Adhesives 1,1-Dichloroethene Groundwater Results (February 2012)



0 50 100
Feet

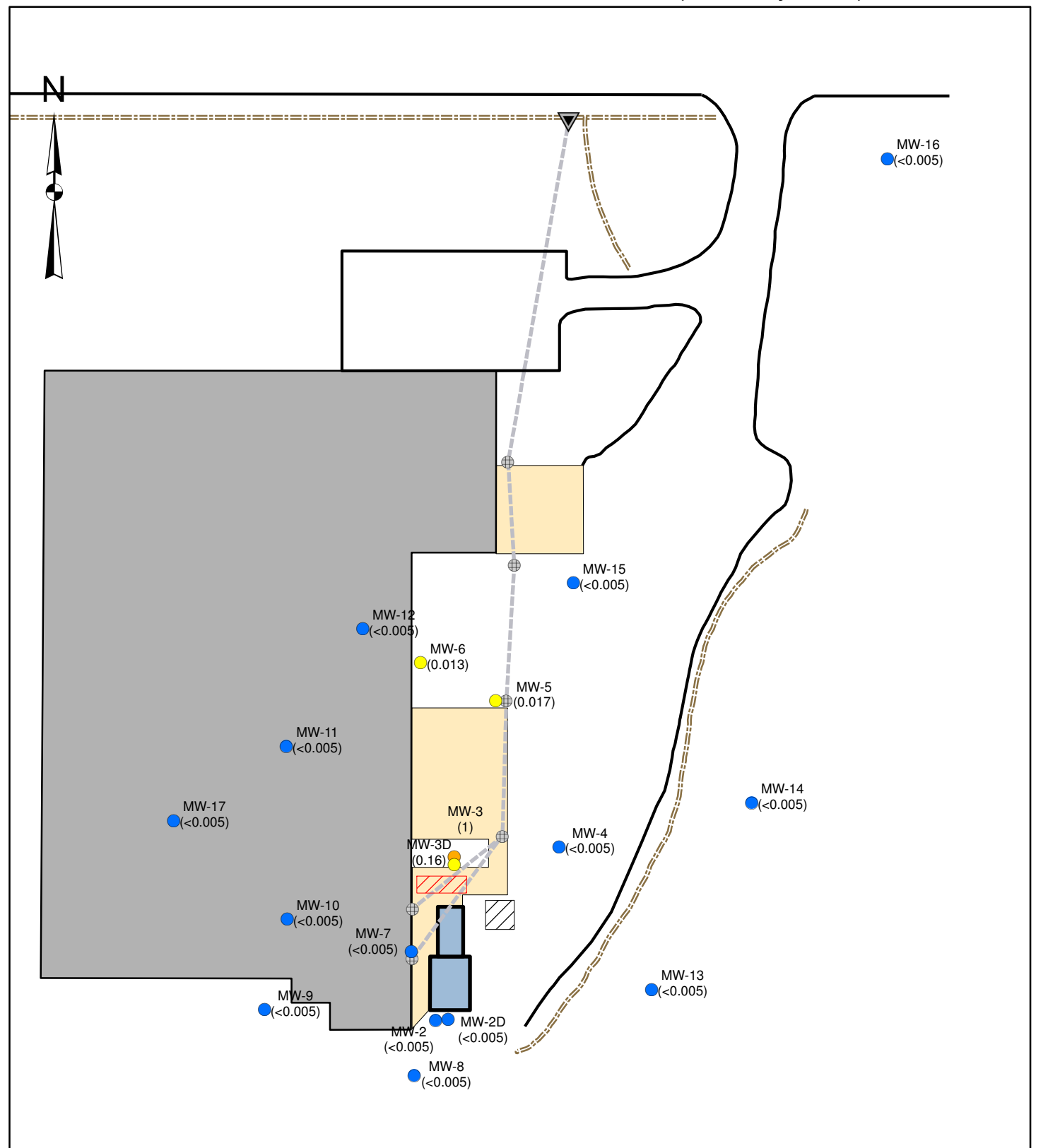
Results (mg/L)

- ND
- < RRS (0.007)
- 0.007-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives 1,2-Dichloroethane Groundwater Results (February 2012)



0 50 100
Feet

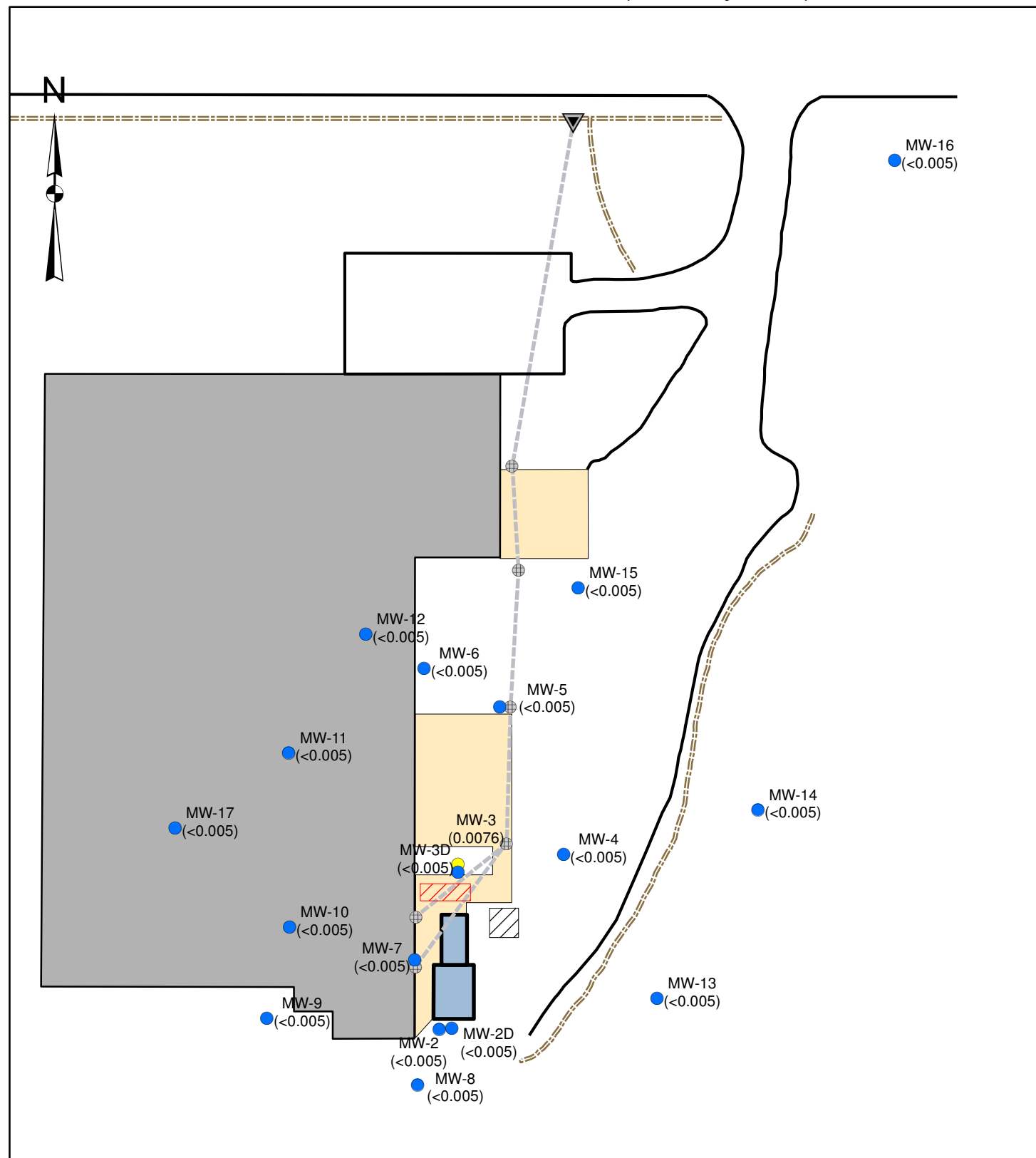
Results (mg/L)

- ND
- < RRS (0.005)
- 0.005-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Benzene Groundwater Results (February 2012)



0 50 100
Feet

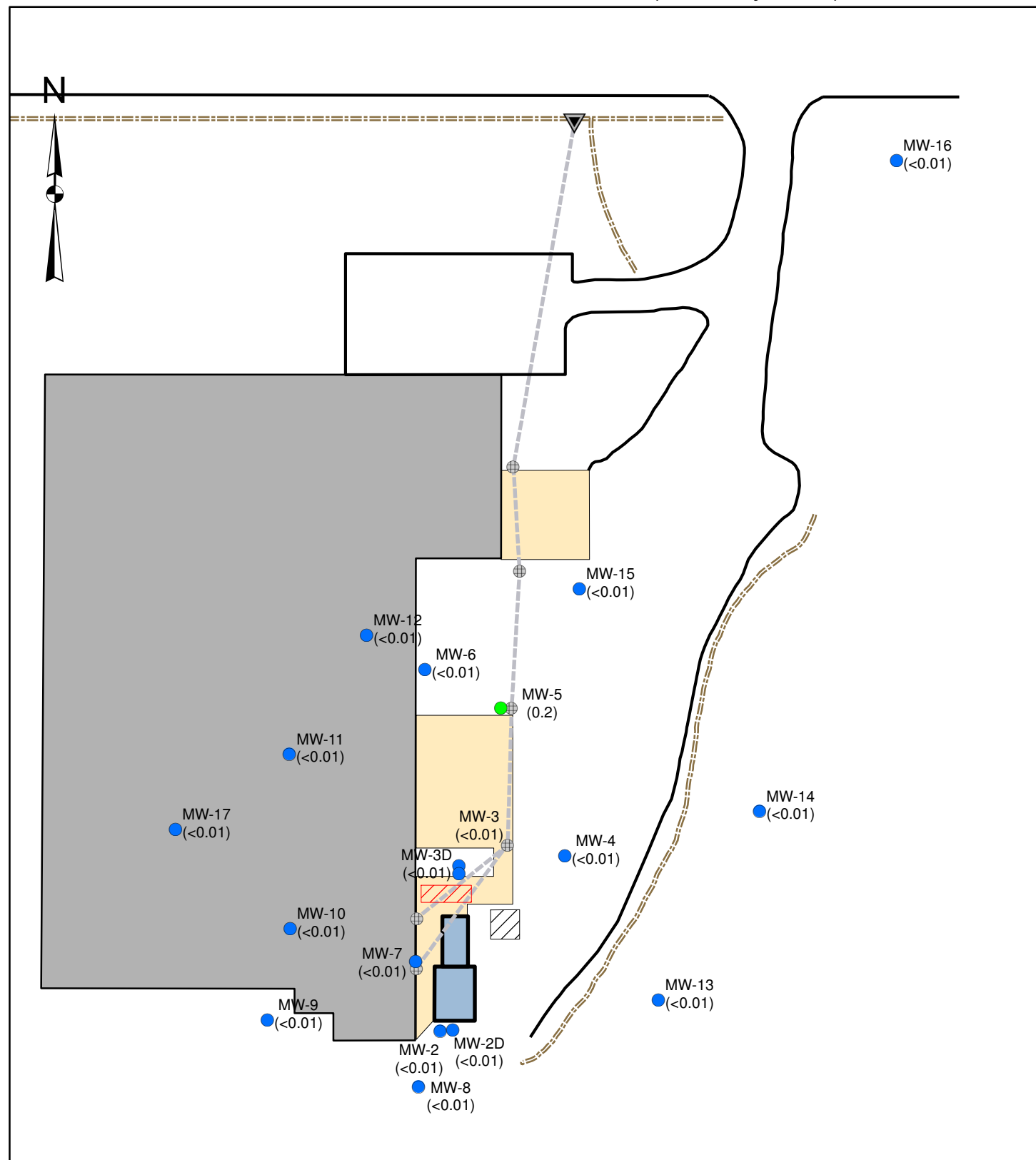
Results (mg/L)

- ND
- < RRS (0.005)
- 0.005-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- - - Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Chloroethane Groundwater Results (February 2012)



0 50 100
Feet

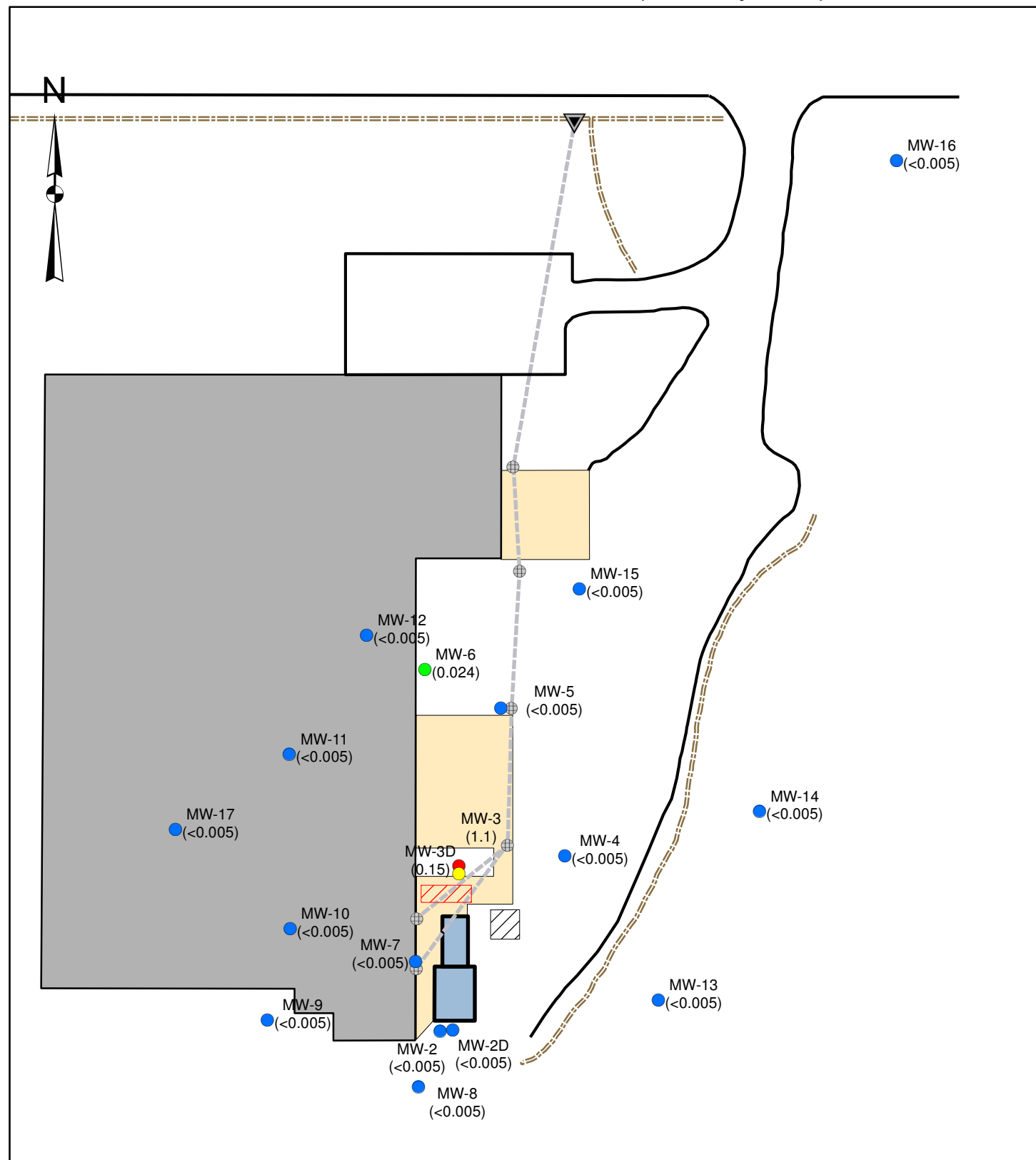
Results (mg/L)

- ND (RRS)
- < 0.25
- 0.25-0.5
- 0.5-1
- > 1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- ▨ AST Containment
- ▨ Facility
- ▨ Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Chloroform Groundwater Results (February 2012)



0 50 100
Feet

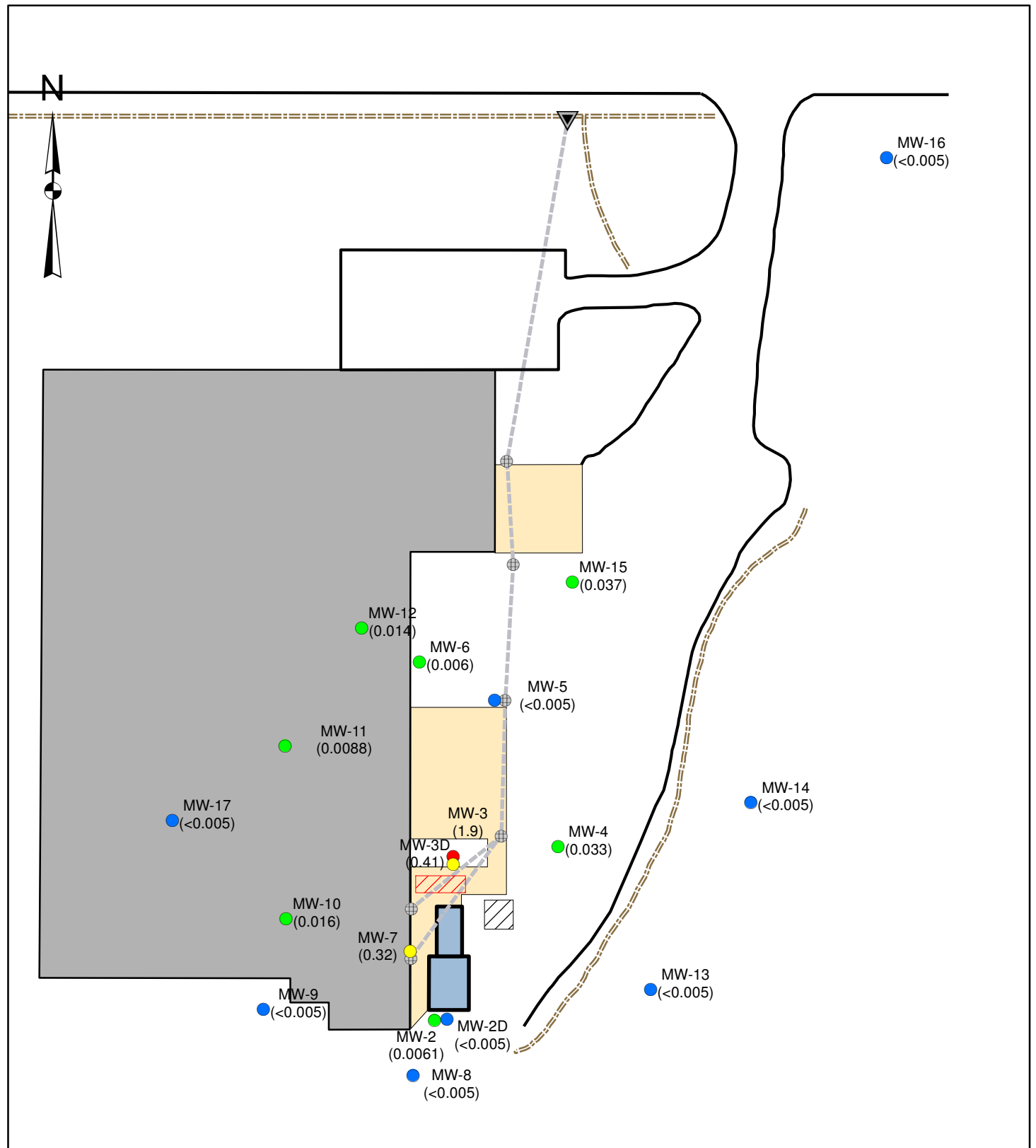
Results (mg/L)

- ND
- < RRS (0.08)
- 0.08-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- ▭ AST Containment
- ▭ Facility
- ▭ Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives cis-1,2-Dichloroethene Groundwater Results (February 2012)



0 50 100
Feet

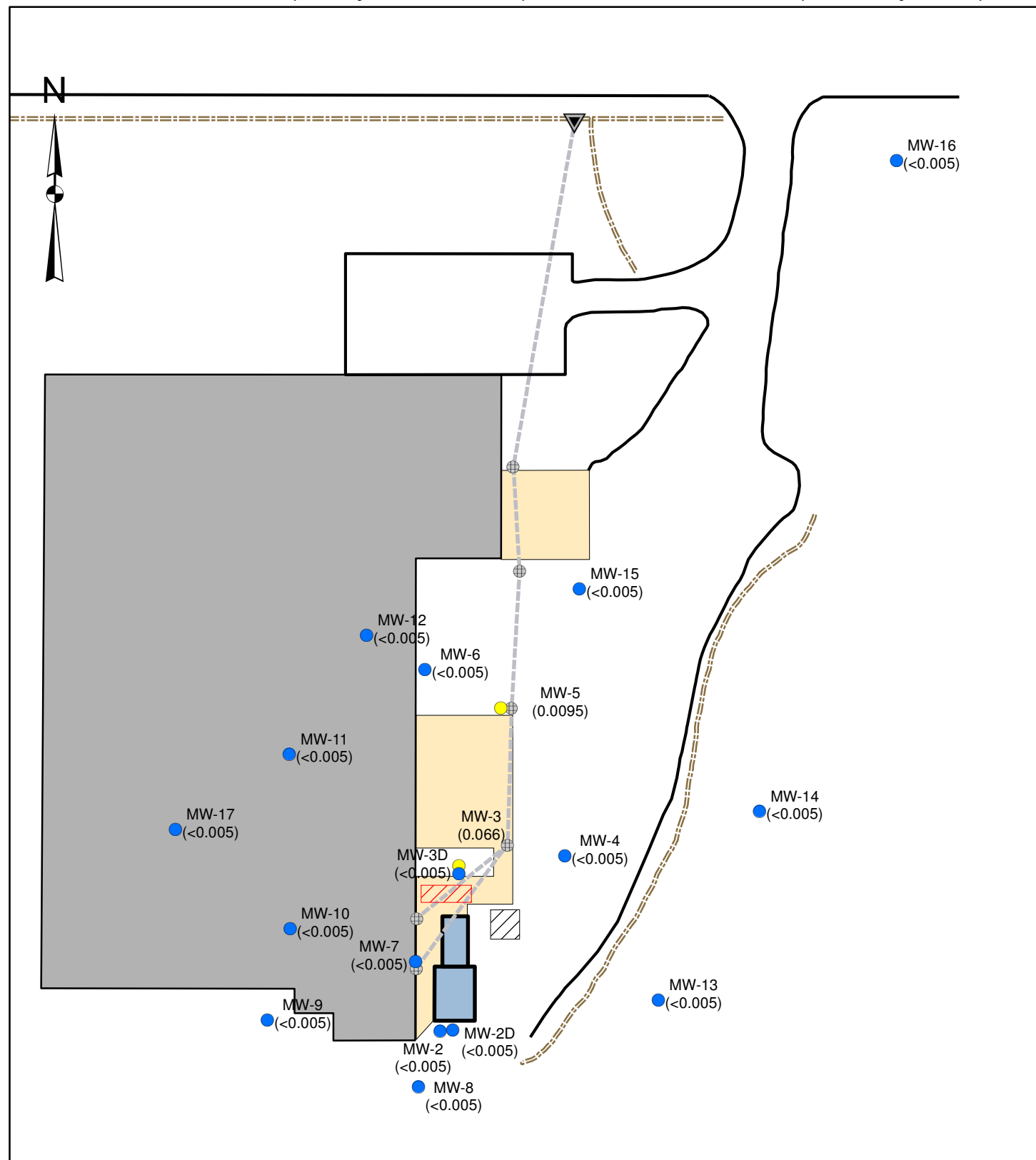
Results (mg/L)

- ND
- < RRS (0.07)
- 0.07-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- ▭ AST Containment
- ▭ Facility
- ▭ Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Dichloromethane (Methylene chloride) Groundwater Results (February 2012)



0 50 100
Feet

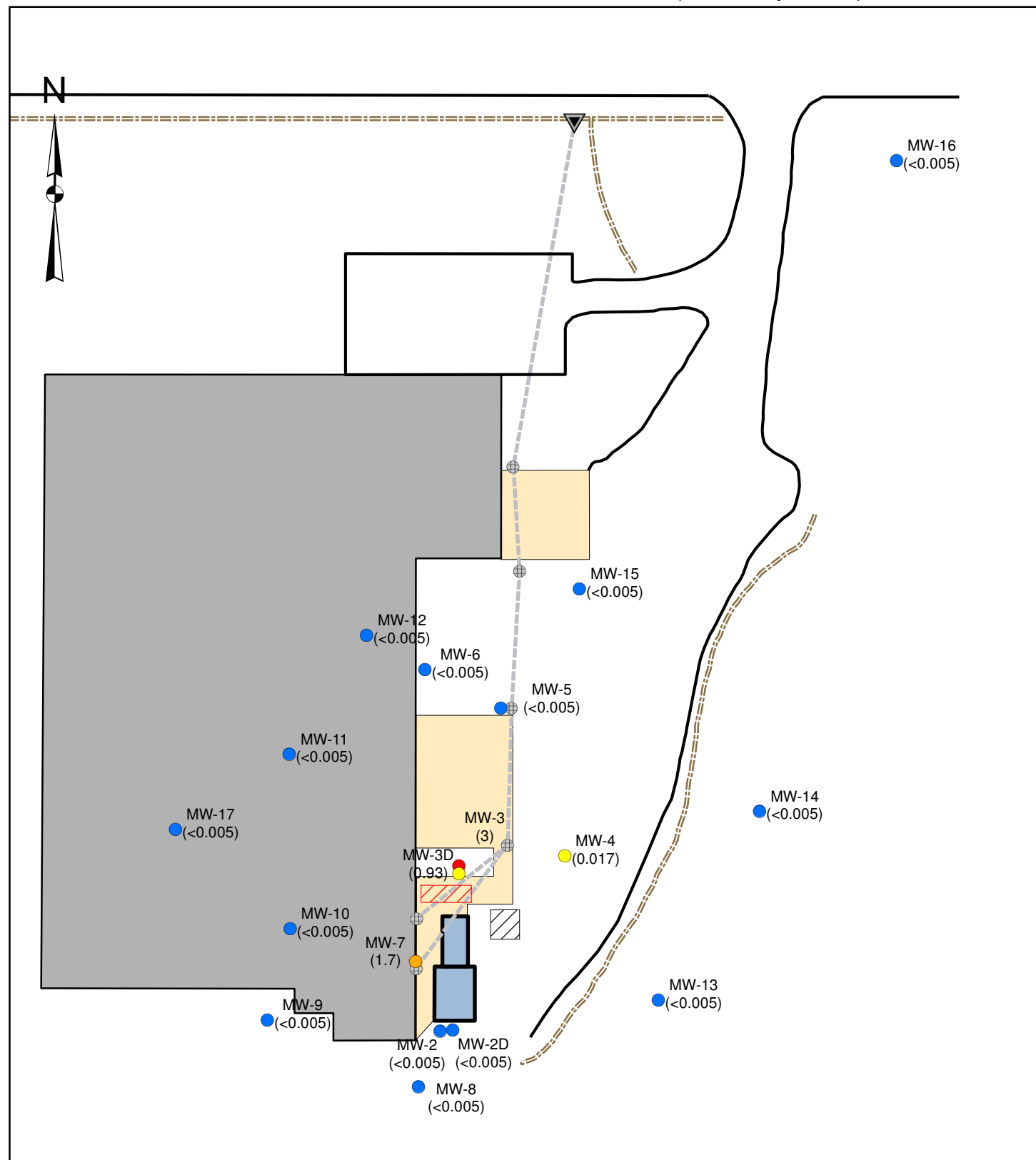
Results (mg/L)

- ND
- < RRS (0.005)
- 0.005-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- ▨ AST Containment
- ▨ Facility
- ▨ Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Tetrachloroethene Groundwater Results (February 2012)



0 50 100
Feet

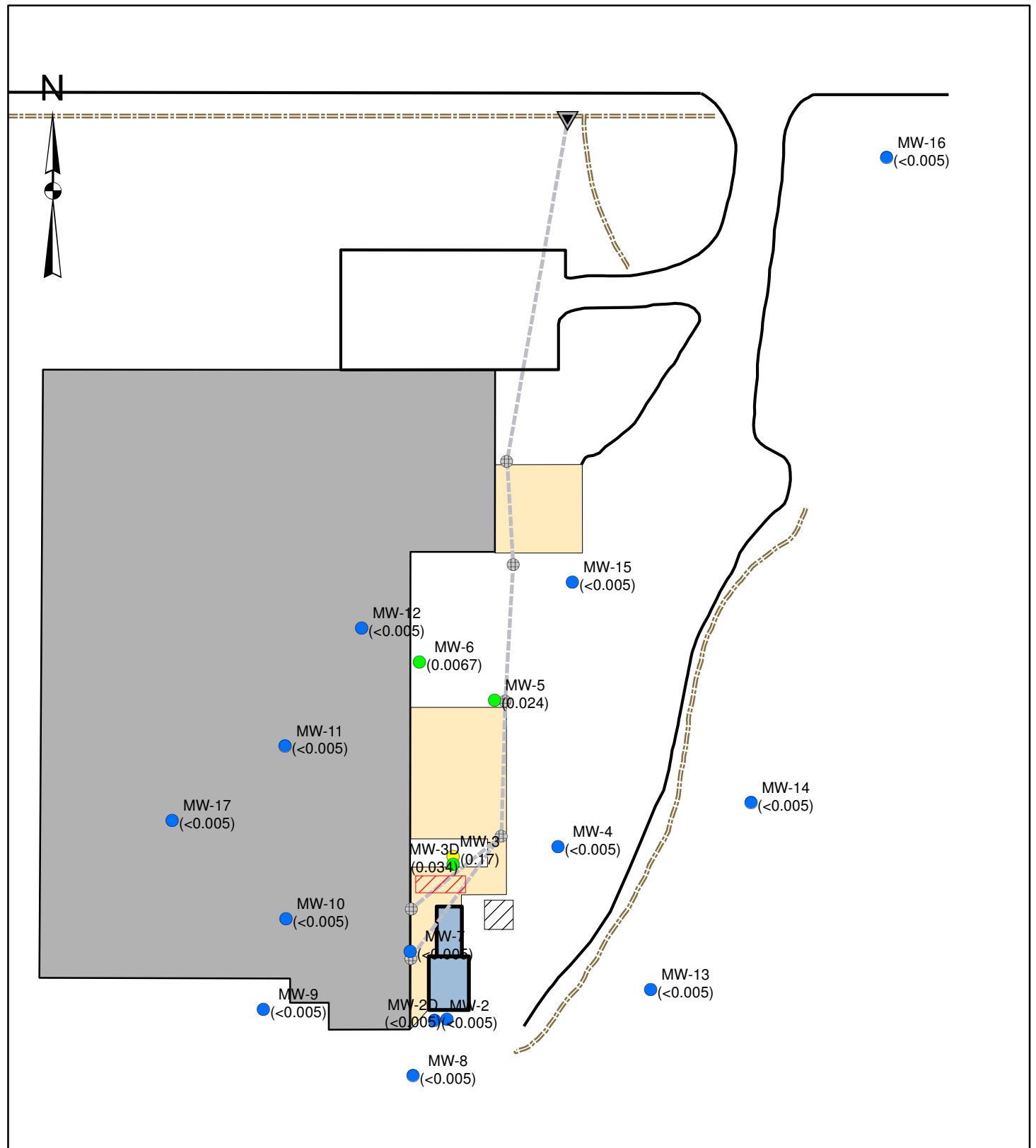
Results (mg/L)

- ND
- < RRS (0.005)
- 0.005 - 1
- 1 - 2
- > 2

- Surface Drainage Ditch
- Transportation Area
- - - Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

Capitol Adhesives trans-1,2-Dichloroethene Groundwater Results (February 2012)



0 50 100
Feet

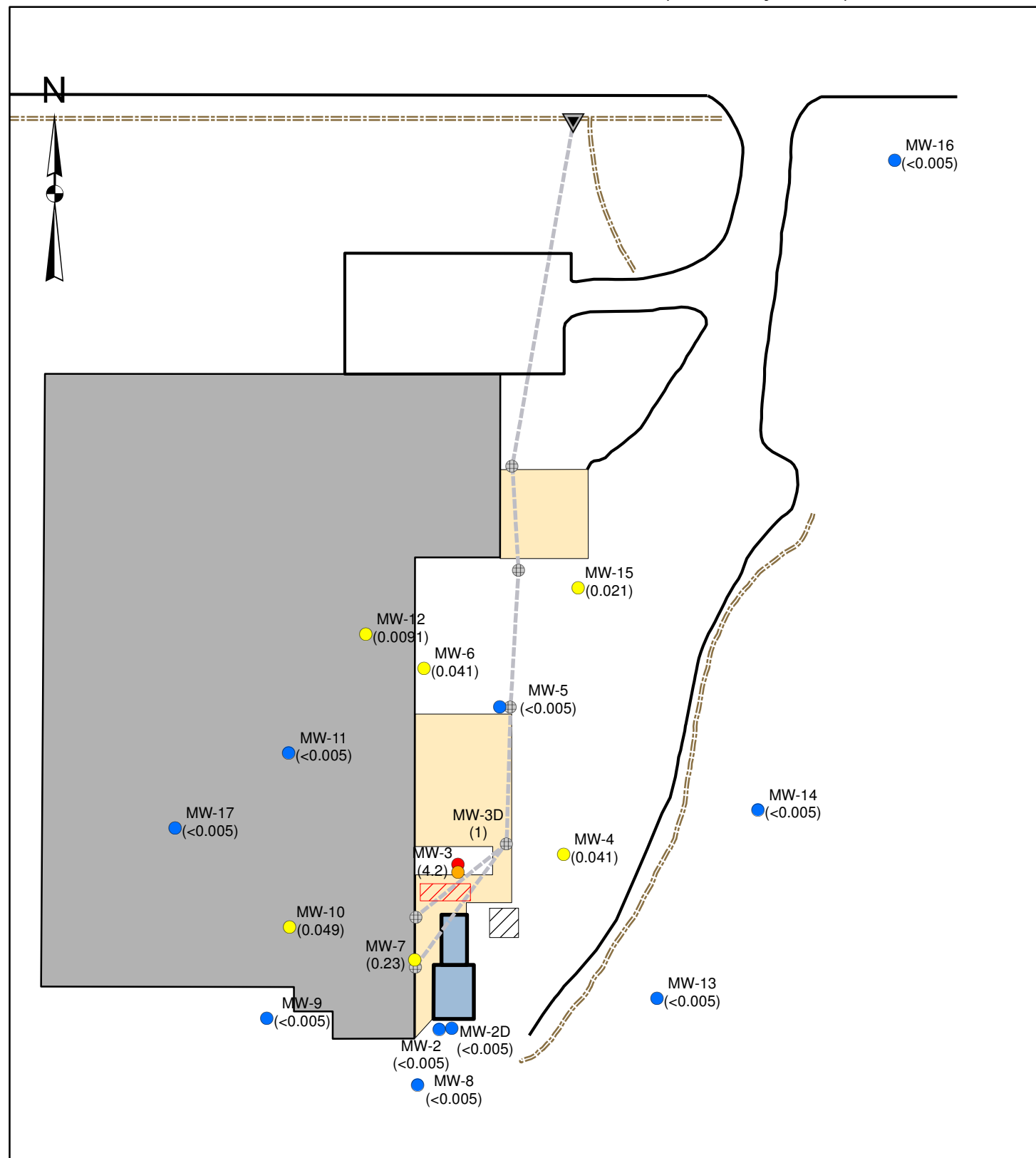
Results (mg/L)

- ND
- < RRS (0.1)
- 0.1-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- Propane Tanks

Capitol Adhesives Trichloroethene Groundwater Results (February 2012)



0 50 100
Feet

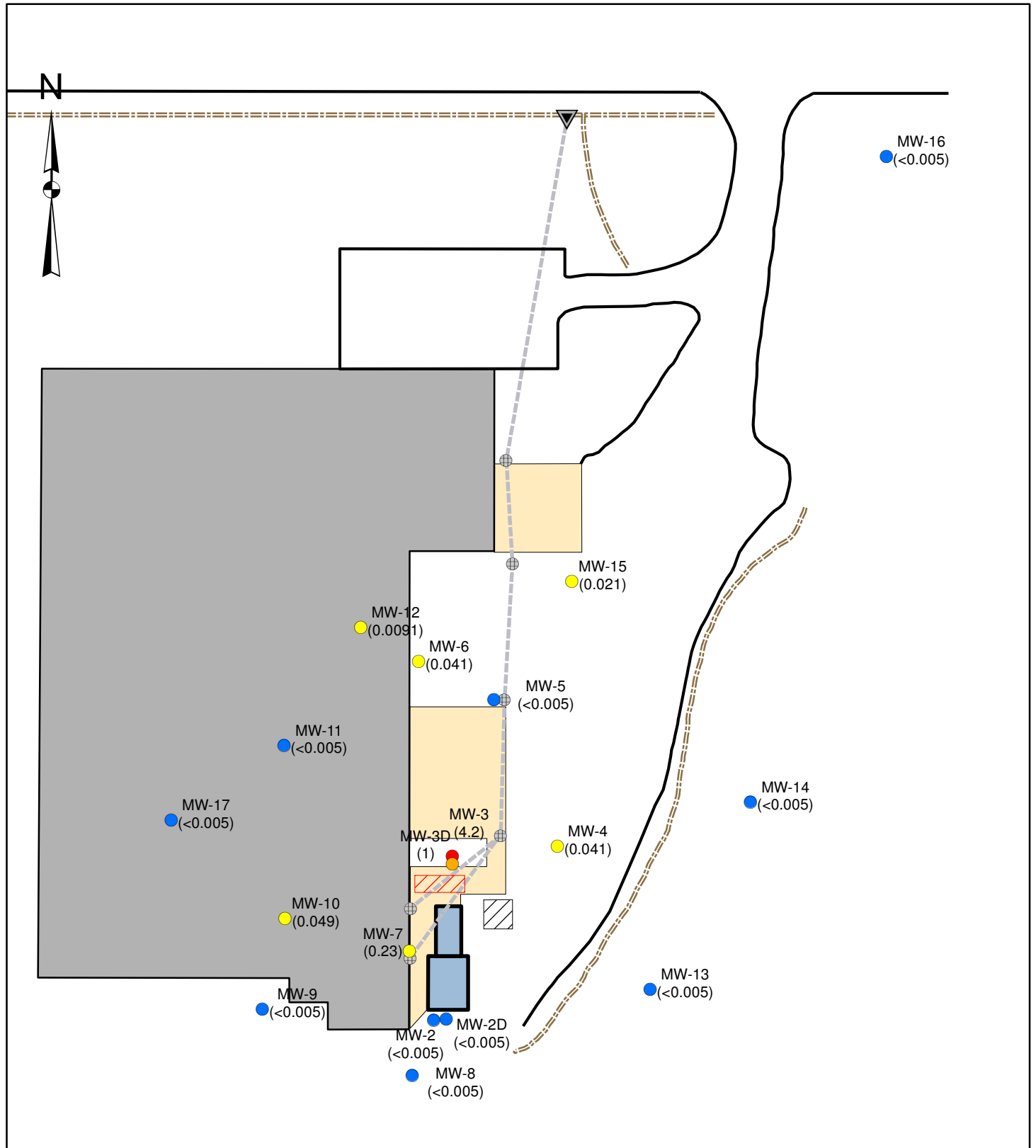
Results (mg/L)

- ND
- < RRS (0.005)
- 0.005-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊗ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks

Capitol Adhesives Vinyl Chloride Groundwater Results (February 2012)



0 50 100
Feet

Results (mg/L)

- ND
- < RRS (0.002)
- 0.002-0.5
- 0.5-1
- >1

- Surface Drainage Ditch
- Transportation Area
- Subgrade Storm/Drain Lines
- ⊕ Open Drains
- ▼ Storm Water Outfall

- ▨ Location of Spill (approx)
- AST Containment
- Facility
- Concrete Surface
- ▨ Propane Tanks